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P. D. Skaar's

Montana Bird Distribution

Fifth Edition
March, 1996

Montana Natural Heritage Program
Special Publication No. 3

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Cover drawing of Boreal Owl by Jerry Kustich © 1996

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P.D. Skaar's

Montana Bird Distribution

Fifth Edition

Revised by the
Montana Bird Distribution Committee:

Janet Ellis
Cedron Jones
David Genter
Jim Reichel
Betsy Spettigue
Daniel Sullivan

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Montana Natural Heritage Program
1996

Dedication

This book is dedicated to Montana's volunteer birdwatchers, whose passion for birding and careful record keeping allow us to better understand our bird populations. Your efforts are greatly appreciated!

Volunteer birdwatchers are used extensively for collecting bird records because of their skill and the enormity of the task at hand: the number of bird species, the variety of habitats birds occupy, and the different times of year that birds use our state. Individual birdwatchers who collect and report their records contribute an important piece of the information needed to monitor the health and welfare of Montana's birds.

This book would not be possible without the thousands of records submitted by volunteer birdwatchers. These individuals see the beauty, grace, and diversity of birds, yet also understand that the conservation of our bird populations and the environment on which they depend requires awareness and knowledge.

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Acknowledgments

We are most grateful to the dozens of contributors who submitted thousands of recent records to make this edition possible (see Appendix G). Other major sources of information include the U.S. Fish and Wildlife Service's Breeding Bird Survey and databases of the Montana Natural Heritage Program.

The Montana Bird Distribution Committee was responsible for the production and fundraising for the Fifth Edition of *Montana Bird Distribution*. Members include Janet Ellis, David Genter, Cedron Jones, Jim Reichel, Betsy Spettigue and Dan Sullivan. Martin Miller was employed to compile data and assist in production. Special thanks to this committee for their long hours and dedicated efforts in writing, revising, troubleshooting, and getting things (finally) to the printer!

The Montana Bird Records Committee reviewed rare bird sightings and provided advice and comment on a number of issues for the Fifth Edition. The Records Committee is comprised of Chuck Carlson (Chair, Fort Peck), Helen Carlson (Billings), Dan Casey (Kalispell), Dr. Bob Eng (Bozeman), Bebe FitzGerald (Billings), Harriet Marble (Chester), Terry McEneaney (Gardiner), Fritz Prellwitz (Malta), and Dr. Phil Wright (Missoula). We thank them for their continuing efforts and dedication to a better understanding of Montana birds.

We thank the Natural Resource Information System and the Montana State Library for staff time and computers. Dan Sullivan obtained and compiled the data from the Breeding Bird Surveys. Editorial advice was provided by Dan Casey, Christian Frazza, George Holton, Sue Jackson, Cary Lund, and Dorothy Poulsen. Several other individuals provided helpful suggestions and advice in planning and review of the project. We thank them all.

Financial support for the project came with the cooperation of the following individuals and organizations: Montana Fish, Wildlife & Parks (Betsy Spettigue, Dennis Flath, Tim Gallagher and Heidi Youmans), Bureau of Land Management (Dan Hinkley), Bureau of Reclamation (Rick Blaskovich and Jerry Jacobs), Glacier National Park (Steve Frye), U.S. Fish & Wildlife Service (Kemper McMaster), U.S. Forest Service (Bill Ruediger), WESTECH (Dean Culwell and Pat Farmer), Golden Sunlight Mine (Bill Seybert), Montana State Parks & Wildlife Interpretive Association; Montana Nature Conservancy, and Montana Audubon.

Seven artists contributed their meticulous drawings to this book. They deserve special recognition. Their time and talent have significantly improved the book's appearance. Cover: Boreal Owl by **Jerry Kustich**. **Pam Bond**: Common Loon, p. 12; Canvasback, p. 24; Sandpiper species, p. 123. **Jim Clayborn**: American Dipper, p. 82; Yellow-rumped Warbler, p. 93. **Marsha Davis**: Great Horned Owl, p. 58; Pileated Woodpeckers, p. 68; Barn Swallow, p. 75. **Ron Jenkins**: Calliope Hummingbird, Dedication Page; Rufous Hummingbird, p. 64; Black-capped Chickadee, p. 78; Western Meadowlark, p. 130. **Jerry Kustich**: Marsh Wren, p. 11; American Kestrel, p. 32; Spotted Sandpiper, p. 42; California Gull, p. 51; Horned Lark, p. 73; Townsend's Solitaire, p. 84; Northern Shrike, p. 88; Western Tanager, p. 100; American Tree Sparrow, p. 103; Song Sparrow, p. 107; Bullock's Oriole, p. 113; American Goldfinch, p. 117; Pygmy Owl, p. 118. **Larry Thompson**: Trumpeter Swan, p. 19; Sharp-tailed Grouse, p. 36. **James Utsler**: Common Raven, Title Page.

About This Book

This book summarizes information on where birds are found in Montana. It lists every species observed in the state, and presents maps for each bird that show breeding, migration and wintering areas.

Birders in Montana have recorded 394 species in the state, of which 99 species are considered rare (fewer than 20 documented sightings for the state). There are 248 species that are confirmed breeders in the state. The total number of overwintering species is 151. An additional 18 species are of hypothetical occurrence (see Appendix F), including several species that are expanding their ranges and may make their way into future editions of this book.

This edition of *Montana Bird Distribution* follows the same basic format used in the Fourth Edition, with two exceptions. First, where adequate information was available, maps have been provided for monitored subspecies (see Appendix B). These maps illustrate how little is currently known about subspecies distribution. Second, the number of sightings reported during the last five years (1991 - 1995) appears for each bird species. This information is included to encourage birdwatchers to report their observations of all species.

New Bird Information in this Edition

Seven bird species are new to the Fifth Edition of *Montana Bird Distribution* : Arctic Tern, Yellow-bellied Sapsucker, Yellow-bellied Flycatcher, Bewick's Wren, Golden-winged Warbler, Prothonotary Warbler, and Painted Redstart. The records for these species have been reviewed and accepted by the Montana Bird Records Committee.

Three new breeding records appear in this book: the Barn Owl was found nesting in quarter latilong (QLL) 25D, the Northern Hawk-Owl in QLL 2B, and the Nelson's Sharp-tailed Sparrow in QLL 12B. Three new overwintering records were also added: Sandhill Crane (QLL 28D), Brown-headed Cowbird (QLL 2D), and Brambling (QLL 2D).

Taxonomic Changes and Subspecies

Several taxonomic changes appear in this edition. Most notably, several species were split, elevating subspecies to the species level. The Rosy Finch officially became three species, two occurring in Montana: Gray-crowned Rosy-Finch and Black Rosy-Finch. The Rufous-sided Towhee became two species, one occurring in Montana: Spotted Towhee. And the Sharp-tailed Sparrow became two species, one occurring in Montana: Nelson's Sharp-tailed Sparrow.

One species, the Northern Oriole, also became three species, two occurring in Montana: the Bullock's Oriole and the Baltimore Oriole. Because this change only recently happened, and there is no quick way to separate historic records of these two species, this book contains three

maps: a map of the Northern Oriole, a bird which no longer exists; and maps containing the current records we have for both the Bullock's Oriole and Baltimore Oriole. Future editions of this book will only contain maps for the Bullock's and Baltimore Orioles.

All species names and taxonomic revisions follow the American Ornithologists' Union (AOU) *Check-list of North American Birds*, Sixth Edition (AOU, 1983, as amended by the 35th through 40th supplements (AOU, 1985; 1987; 1989; 1991; 1993; 1995)).

Because future taxonomic changes are inevitable, the Montana Bird Records Committee has identified five species where data collection for subspecies distribution is requested. The five species and their 13 subspecies are identified in Appendix B.

A History of *P.D. Skaar's Montana Bird Distribution*

Dr. Palmer David Skaar

No one person did more to further the study of Montana birds than Dr. Palmer David Skaar (1923-1983). Dr. Skaar came to Montana in 1957 to join the faculty of Montana State College (now Montana State University) as a microbial geneticist. Accomplished in his academic field, he was also known for his interest in birds. His involvement in the study of Montana bird distribution earned him great respect throughout the state. His enthusiasm was contagious, and his patience and modesty were exemplary.

Dr. Skaar pioneered the "latilong" concept in animal distribution studies. His definitive *Birds of the Bozeman Latilong,* published in 1969, was a model regional bird account. In 1975, he published the First Edition of *Montana Bird Distribution*. The impact of this book was tremendous. It motivated volunteers and professionals across the state, and resulted in careful ornithological scrutiny of vast areas of Montana that had never before been studied. Since the publication of the First Edition of *Montana Bird Distribution*, several other states and classes of animals have been mapped using the latilong system. The annual Breeding Bird Surveys sponsored by the U.S. Fish & Wildlife Service also use this system.

Dr. Skaar published the Second Edition of *Montana Bird Distribution* in 1980. The Third Edition was published in 1985 by Don Skaar (Dr. Skaar's son), Dennis Flath, and the late Larry Thompson (Skaar et al. 1985).

The Fourth Edition of *Montana Bird Distribution* appeared in March, 1992 (Bergeron et al. 1992) with two innovations. First, it introduced mapping quarter latilongs to better define species distribution. Second, and more significantly, the maps in the Fourth Edition were generated from a computerized database of bird distribution records (see *About the Bird Distribution Database* on page 3).

P.D. Skaar's Montana Bird Distribution is revised and updated approximately every 5 years. Each update is cumulative, adding new bird records to those documented historically. This Fifth Edition of *Montana Bird Distribution* is one of Dr. Skaar's ongoing legacies. Future editions will continue as a direct result of his inspirational and visionary efforts.

An Introduction to Montana

Montana is a diverse state: the western third of the state is dominated by high rugged mountain ranges dissected with broad forested valleys; the central portion features island mountain ranges rising out of the grassy plains; and the eastern half of the state can be characterized by rolling grass-covered plains carved by major rivers. Ecologically, Montana includes portions of the Great Basin, Great Plains, and Northern Rockies, resulting in a diversity of wildlife habitat.

Vastly different climates also occur in Montana. Continental air masses with cold, dry winters and hot summers dominate most of the state. Climate extremes are demonstrated in the eastern plains which range between - 40°F(- 40°C) to over 100°F (38°C), with annual precipitation between 8 inches (20 cm) and 15 inches (40 cm). The plains also have droughts that can be frequent and severe. Northwest Montana is more influenced by Pacific moist air with moderate temperatures. The Rocky Mountains are somewhat cooler and more moist, with annual precipitation generally increasing with elevation, much of it in the form of snow.

The diversity of Montana's geography, ecology, and climate all contribute to the great natural diversity and abundance of birds in our state. However, land use practices are changing the abundance and distribution of our avifauna. Some species, such as the European Starling, tend to thrive in human-altered landscapes. These birds have expanded their range and numbers as Montana's human population has grown. Other species, such as the Piping Plover, require specialized natural habitat. Human development of these specialized habitats may make such species increasingly rare or threatened. As we view the distribution of Montana birds over time, we will undoubtedly witness the expansion of some species and the decline of others.

About the Montana Bird Distribution Database

The Fifth Edition of *Montana Bird Distribution* is a "snapshot" of the Montana Bird Distribution Database as of January 1, 1996. Likewise, the Fourth Edition of this book was a snapshot of the same database on January 1, 1992. The Montana Bird Distribution Committee hopes to produce future "snapshots" at five-year intervals.

The Montana Bird Distribution Database was created in 1991. It stores basic information on every bird record submitted - the who, what, when and where. Specimen data and photograph records are also stored in the database. It is housed and maintained at the Montana Natural Heritage Program at the Montana State Library in Helena.

Anyone interested in the distribution of Montana birds may use this database. It can provide information far beyond what appears in this book: for example, which species occur in the Jordan area; or what is the current range of the Say's Phoebe in Montana; or how many times have Blue Jays been reported since 1990?

The database was established by entering information from the Third Edition of *Montana Bird Distribution* (1985). Entries from the Third Edition do not include the source (observer), location (except latilong), and date. In addition, Third Edition records represent an unknown number of actual observations. In contrast, all subsequent records added to the database represent an actual observation by a known individual at a specific time and place.

The database contained approximately 48,000 records when the maps in this book were generated. Of these, 12,910 represent latilong values from the Third Edition, 13,570 are records entered for the Fourth Edition (records received in 1985 through 1991), and 21,520 are records new for this edition (records received in 1992 through 1995).

Mapping with Latilongs and Quarter Latilongs

Maps in this book are shaped in the general outline of Montana. They show the distribution of bird species by mapping bird sighting information in units called latilongs and quarter latilongs. The map on the back cover depicts the 49 latilongs and 185 quarter latilongs in Montana. These mapping units work well in a large, sparsely populated state like Montana.

Latilongs (LL) are mapping units formed by successive lines of latitude and longitude, each at one degree intervals. These lines form a rectangular grid pattern across the state. Each latilong is assigned a number: 1 through 49. Latilongs 48 and 49 cover small portions of southwestern Montana. The average dimension of each latilong is 47 miles (76 km) wide and 69 miles (111 km) long, representing an average area of 3,200 square miles (8,436 sq. km). Latilongs along the Canadian border are 5.4 percent smaller than those along the Wyoming border.

Quarter latilongs (QLL) are created by dividing each latilong unit into four quarters, each at the 30 minute degree mark. Each quarter latilong is identified by its associated latilong number, with the addition of a letter (A, B, C, or D), ordered left to right (see Figure 1). Thus, latilong 25 is broken into 4 QLLs: 25A, 25B, 25C, and 25D.

Figure 1. Quarter latilongs are created by dividing each latilong unit into four quarters.

Quarter latilong information has only been recorded since 1985. As additional information is collected by quarter latilong, *Montana Bird Distribution* will more accurately reflect species distribution.

A Summary of Bird Record Information by Latilong

The following maps use the latilong system to summarize the information stored in the Montana Bird Distribution Database in two different ways. Figure 2 shows the total number of records of all species entered for each quarter latilong (QLL) for the period 1991 through 1995. Figure 3 shows the relative diversity of bird species with two different numbers: 1) the center number indicates the total number of species ever reported for that latilong; and 2) the QLL number shows the total number of species recorded in each QLL for the period 1991 - 1995. Both maps reflect where our contributors are birdwatching.

Figure 2. Total Records of all Species for Each Quarter Latilong, 1991 - 1995.

261	270	217	113	199	386	48	63	114	148	96	18	126	75	77	28	35	49	24	1	4	8	79	212
356	283	106	872	224	280	291	38	1	393	497	144	71	93	33	31	154	55	88	281	42	29	85	248
303	361	56	245	463	91	281	879	120	410	155	135	72	112	154	17	6	43	143	155	13	0	5	15
0	76	178	190	193	388	157	398	204	101	143	142	39	280	139	40	18	38	7	11	55	1	39	62
		52	585	273	237	341	1193	786	118	239	150	53	131	1	76	0	67	0	0	1	63	1	3
			954	228	95	226	222	272	453	148	330	166	97	114	75	2	2	94	2	49	9	0	108
		188		102	153	61	127	250	225	320	58	89	153	204	88	127	38	55	203	71	105	40	172
				6	43	44	15	196	40	215	73	36	53	77	85	97	18	95	147	31	17	26	146
						34	89	112	268	142													

Figure 3. Total Number of Species Ever Recorded in Each Latilong (Center Number) and the Number of Species Recorded in Each Quarter Latilong since 1991.

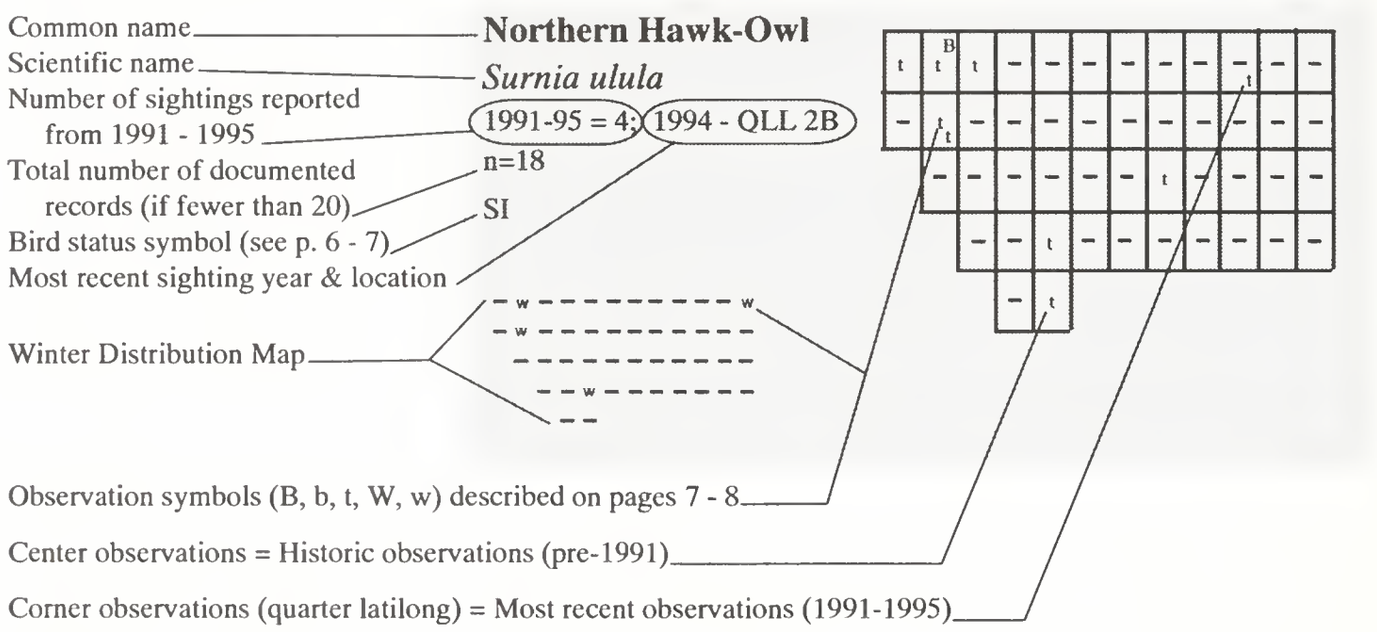
108	146	110	80	119	190	37	60	78	92	59	16	70	62	72	26	35	45	24	1	4	8	56	139
245		294		262		193		219		218		198		192		265		280		180		261	
121	133	80	241	130	186	142	36	1	154	153	93	45	86	33	30	134	43	71	221	42	28	71	158
140	157	52	169	158	62	135	218	74	189	97	80	54	82	93	17	6	39	113	154	13	0	5	15
208		298		244		277		274		193		236		226		186		219		170		211	
0	75	117	156	105	163	99	154	129	71	85	81	37	141	81	33	18	37	7	10	55	1	35	62
		49	222	130	135	141	198	187	81	113	94	40	89	1	72	0	64	0	0	1	62	1	3
		294		268		267		278		256		231		227		202		201		250		179	
		198		123	68	147	130	134	146	86	173	116	82	77	67	2	2	73	2	45	9	0	77
		111		89	112	50	93	151	170	155	47	67	122	138	71	79	33	39	87	50	70	38	99
				196		223		305		248		262		293		197		222		184		213	
				5	40	35	14	105	39	135	60	27	46	64	59	70	17	64	80	24	17	26	78
						32	71	97	155	105													
							182		238														

How to Read the Maps

The maps show the distribution of birds in Montana. Each species is listed by common and scientific name in taxonomic order. The scientific order and family names are inserted to aid in grouping the species. To help users of this book, the common family name is placed in the top outside margin of each right hand page for the predominant group of species found on that page.

As explained above, this edition of *Montana Bird Distribution* is cumulative, adding new bird records to those documented historically. Latilongs can have historic as well as current sighting information. "Historic" bird records are considered pre-1991 sightings. These records appear in the center of the latilong. The most recent observations, gathered in the last five years (1991 - 1995) are displayed in the quarter latilong position of each map.

Figure 4. Example of Distribution Map for a Bird with Special Status.


Common name
Northern Hawk-Owl
Scientific name
Surnia ulula
Number of sightings reported from 1991 - 1995
1991-95 = 4; 1994 - QLL 2B
Total number of documented records (if fewer than 20)
n=18
Bird status symbol (see p. 6 - 7)
SI
Most recent sighting year & location
Winter Distribution Map
Observation symbols (B, b, t, W, w) described on pages 7 - 8
Center observations = Historic observations (pre-1991)
Corner observations (quarter latilong) = Most recent observations (1991-1995)

Bird Status and Number of Reported Sightings

The number of reported sightings and status of each species is provided on the lines beneath the bird's name. Symbols and their definitions are explained below.

1991-95 = The total number of bird sightings reported for this species in the last five years, 1991 - 1995. If no sightings were turned in during the last five years (1991-95 = 0) the year and location (latilong or quarter latilong) of the most recent sighting is listed.

(introduced) Not native to North America or a native North American species transplanted to Montana (see Appendix D).

n= Rare birds (fewer than 20 verified sightings in the state) are identified by the letter "n" followed by the number of sightings. The year and location (latilong or quarter latilong) of the most recent sighting is listed for all rare species.

TES Threatened, Endangered or Sensitive Species. Species assigned to this category are one of the following: federally recognized endangered or threatened species under the Endangered Species Act; U.S. Forest Service sensitive species; or species of special concern recognized by the Montana Natural Heritage Program (see Appendix A).

SI Birds for which "Supplemental Information" is needed. This group of species is poorly known in the state or has unique breeding habits that warrant further study (see Appendix A).

Symbols on Distribution Maps

The main distribution maps include observations recorded during both the spring and fall migration, and the summer breeding season (observations recorded between February 16 and December 14). Separate maps exist for winter sightings, with observations recorded between December 15 and February 15 (see below).

Each symbol within latilong and quarter latilong rectangles represents the highest documented status for that species in each latilong or quarter latilong ("B" greater than "b" greater than "t"). The symbols used are defined as follows:

B **Direct evidence of breeding.** Use of the "B" to designate breeding requires "hard evidence." A "B" can be hard to get. Breeding is not assumed simply by presence or behavior. "B" is used only if one of the following criteria are met:

1. Occupied nest; adults entering or leaving nest site in circumstances indicating an occupied nest (includes high nests or nest-holes, the contents of which cannot be seen) or adult incubating or brooding.

2. Recently fledged young (of altricial species) incapable of sustained flight, or downy young (of precocial species) restricted to the area by dependence on adults or limited mobility.

3. Attending young; adult carrying food or fecal sac for young, or feeding recently fledged young.

4. Used nest or eggshell found (Caution: identification must be convincing for such records to be accepted).

5. Nest with egg(s) which can be clearly identified. The presence of cowbird eggs or

young is confirmation of breeding for both cowbird and host species.

b **Indirect or circumstantial evidence of breeding**.

1. Singing males or territorial birds observed in suitable nesting habitat during the breeding season.

2. Courtship behavior or copulation.

3. Adults visiting a probable nest site.

4. Agitation behavior, distraction display, feigning injury, or anxiety call from an adult.

5. Nest building.

6. Physiological evidence of breeding (brood patch or eggs in oviduct) based on bird in hand.

t **No evidence of breeding**. Transients, migrants, or wide ranging species that exhibit no breeding behavior at the time observed.

– **No records**

Winter Distribution Maps

The winter distribution of species is recorded between December 15 and February 15. Winter maps display data in latilong blocks only. However, the Montana Bird Distribution Database does record winter quarter latilong information for all post-Third Edition data. The symbols used are defined as follows:

W **Overwintering**. Regular sightings during the winter period.

w **Overwintering not yet documented**, but species observed at least once between December 15 and February 15.

– **No records**

Subspecies Maps

Birds for which information is requested at the subspecies level are listed in Appendix B. Subspecies maps appear directly after the species map. For example, following the Northern Flicker map, there is a map for both the Red-shafted and the Yellow-shafted Flicker subspecies.

Submission of New Records

The recording of bird sightings in Montana is an ongoing process. For that effort to succeed, all species, common and rare alike, must be recorded for each quarter latilong during each revision period.

Most records should be submitted on the Quarter Latilong Report Form found in Appendix I, or a similar format. If there were several birding trips within a single quarter latilong (QLL), the sightings from each trip should be summarized into a single master list for that QLL. For each species recorded, list the highest status observed ("B" greater than "b" greater than "t") and the date of that observation.

The use of Rare Bird Report Forms is described on page 10.

Individuals who want to submit records electronically should contact the Montana Natural Heritage Program for information about the format required.

This book summarizes thousands of individual bird sighting records. Verifying the quality of records, whether collected by professionals or volunteers, is an important step taken to ensure that only the highest quality information is accepted. Therefore, rare bird records are screened by the Montana Bird Records Committee; all other distribution records are screened by staff at the Montana Natural Heritage Program.

Information Required of All Sightings

The bird distribution database includes only those records submitted by birdwatchers that are accurate and complete. Every record that is turned into the Montana Bird Distribution Database must have the following information:

- The **name** of the bird (either common name or scientific).

- The **date** of the sighting. Dates are critical for knowing when birds are breeding, arriving to breed, or migrating through Montana. The date also gives database managers a tool for verifying records. For example, a breeding record for a warbler in March would not be accepted without substantial documentation. Consequently, records without dates are not accepted.

- The accurate **location** of the observation. In addition to quarter latilong information, a short description of the location of all records is requested (i.e., Bean Lake; Chinook; Hwy 200, 10 miles west of Simms; etc.). For finer resolution in determining locations and quarter latilongs, please refer to U.S. Forest Service, Bureau of Land Management (BLM), or U.S. Geological Survey (USGS) maps; or the *Montana Atlas and Gazetteer* (DeLorme Mapping, 1994).

- Observations marked with a "**B**" or "**W**" must be accompanied by information documenting why the designation was used.

  A detailed description of "**B**" appears under *Symbols on Distribution Maps* on pages 7-8. At least one of five specific criteria must be met to qualify a sighting for this category (i.e., occupied nest, dependent young, etc.). If no information is included with a "B" designation, the record will be recorded as a "b."

  Similarly, "**W**" has a specific definition that needs to be documented: "regular sightings during the winter period." Without documentation, an (upper case) "W" will be recorded in the database as a (lower case) "w."

- The **name**, **address** and **telephone number** of the main observer. This information allows the observer to be contacted if questions arise about an observation.

Because of the volume of data being managed and the limited time available for scrutiny of individual bird sighting records, efforts made to provide complete and accurate information are appreciated - and contribute greatly to our knowledge of Montana bird distribution.

Rare Birds

A Rare Bird Report Form, found in Appendix H, must be submitted for the following observations: rare birds (species with less than 20 sightings); out-of-range species; the first state breeding record for a species; and the first overwintering record for a species. The Montana Bird Records Committee was established in 1991 to review rare and unusual sightings. Only rare bird records approved by the Records Committee are included in the database.

When you submit a rare bird sighting, describe only what you actually observed. Do not report details you felt you should have seen, but did not. Seldom is it possible to see all criteria. Complete the report as soon as possible following the observation while your impressions are fresh. Please submit any drawings or photographs; they will become part of the permanent record unless return is requested. Although the main emphasis should be on describing the species under consideration, it is also helpful to note how you eliminated similar species.

Sensitive Species

Specific details are requested for all sightings of **threatened, endangered,** and **sensitive species (TES)**, as well as species where **supplemental information** is being collected **(SI)**. All birds in these categories can be found in Appendix A.

For all TES and SI species, the precise location of a record is particularly important. Therefore, a short description of the location of all records is requested (i.e., Bean Lake;

Chinook; Hwy 200, 10 miles west of Simms; etc.). Nesting information on these species is also critical. Nesting records should include the exact location of the nest(s), number of individuals observed, and a general habitat description.

Observations of TES and SI species can be reported on the quarter latilong report form found in Appendix I. Use multiple lines for your descriptions of the requested information, if necessary.

Subspecies Reports

There are five species for which records need to be collected for subspecies distribution. These species are listed in Appendix B. In particular, subspecies records for the Solitary Vireo (Cassin's and Plumbeous) are needed.

When and Where to Submit Records

All Rare Bird reports should be submitted immediately after the sighting, while details of the observation are fresh in your mind. Quarter latilong (QLL) lists should be aggregated and submitted at least once per year.

New records are added to the Montana Bird Distribution Database on a regular basis. Regular submission of observations will allow the database to stay current for queries on individual species and will greatly facilitate production of the next edition of this book.

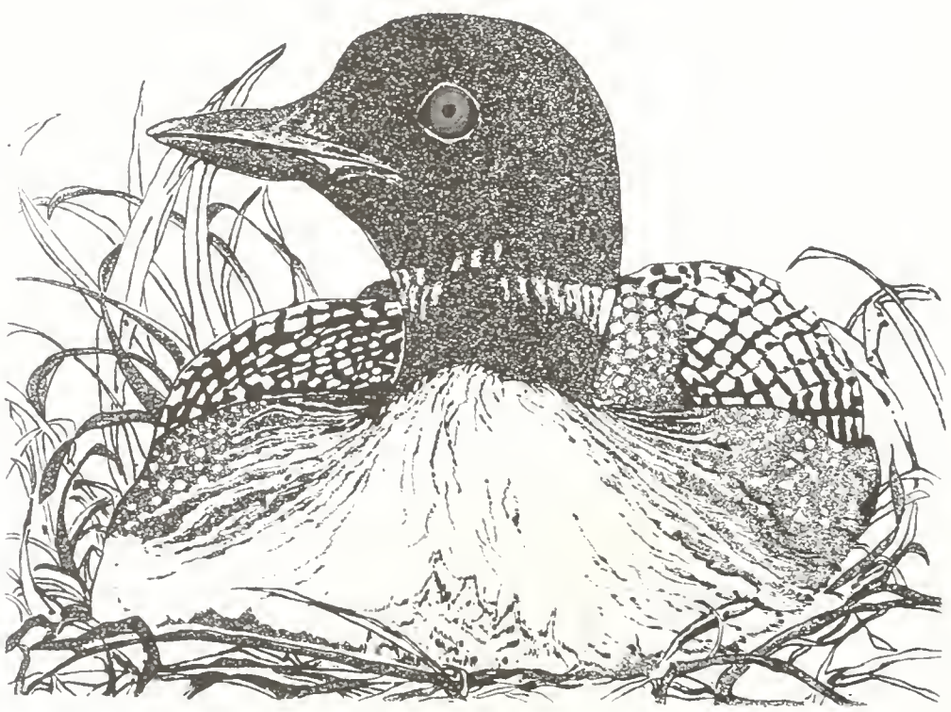
All records should be mailed to:

Montana Bird Distribution Update
Montana Natural Heritage Program
1515 East Sixth Avenue
P.O. Box 201800
Helena, MT 59620
(406) 444-3009

Legend

For detailed descriptions of each legend item, see pages 6 - 8.

1995-91=	Total number of sightings submitted in the last five years, 1991 - 1995
B	Direct evidence of breeding (occupied nest, dependent young, etc.)
b	Indirect or circumstantial evidence of breeding
(introduced)	Not native to Montana
LL	Latilong
QLL	Quarter latilong
n=	Number of documented records (if fewer than 20)
SI	Supplemental information requested for this species
t	Observed between Feb. 16 and Dec. 14; no evidence of breeding
TES	Threatened, endangered, or sensitive species
W	Overwintering; regular sightings between Dec. 15 and Feb. 15
w	Overwintering not documented
–	No record



Red-throated Loon

Gavia stellata

1991-95 = 1; 1991 - QLL 10D

n = 8

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--w---------
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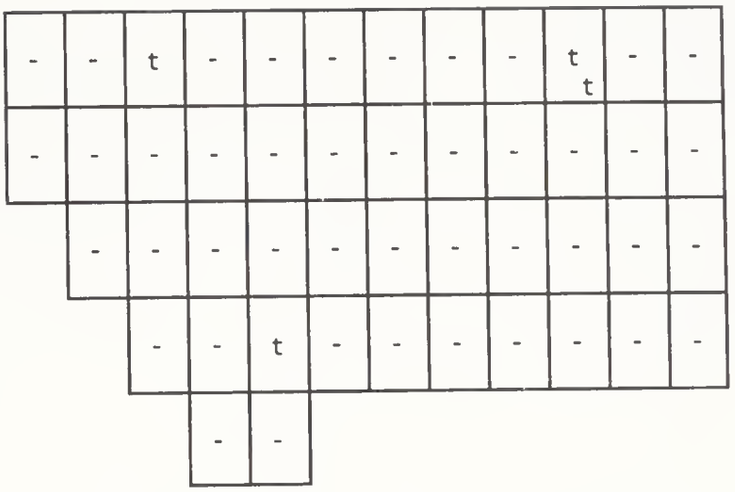

Pacific Loon

Gavia pacifica

1991-95 = 1; 1993 - QLL 40B

n = 3

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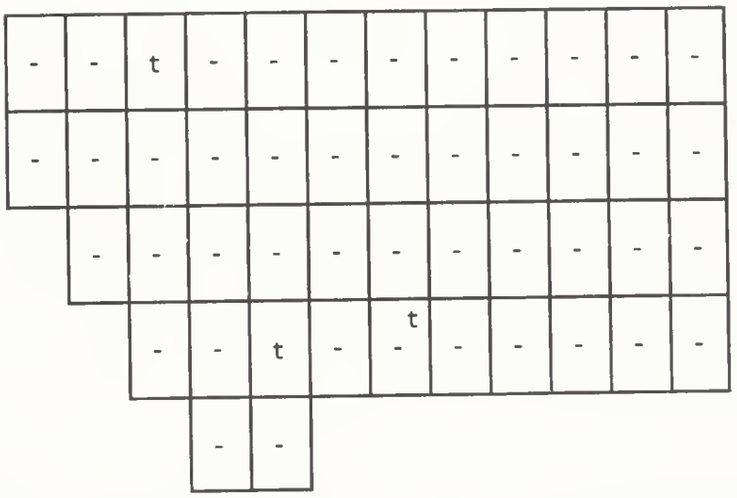

Common Loon

Gavia immer

1991-95 = 119

TES

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WWw------w--
wW----------
 ---w-------
  --w-------
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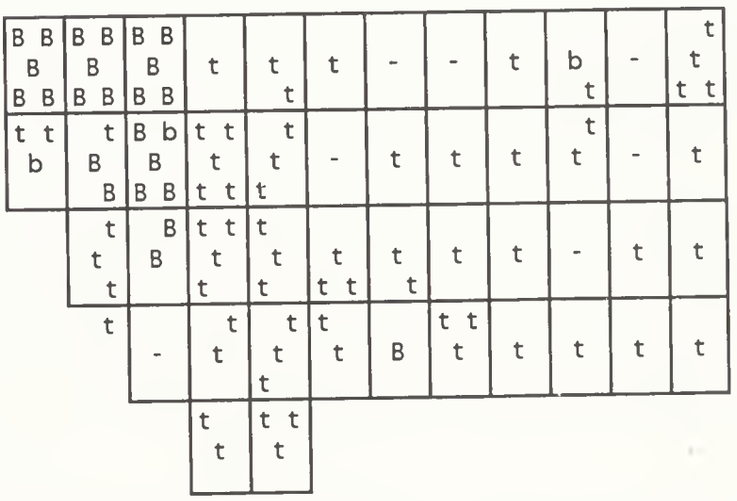

Yellow-billed Loon

Gavia adamsii

1991-95 = 1; 1994 - QLL 10D

n = 2

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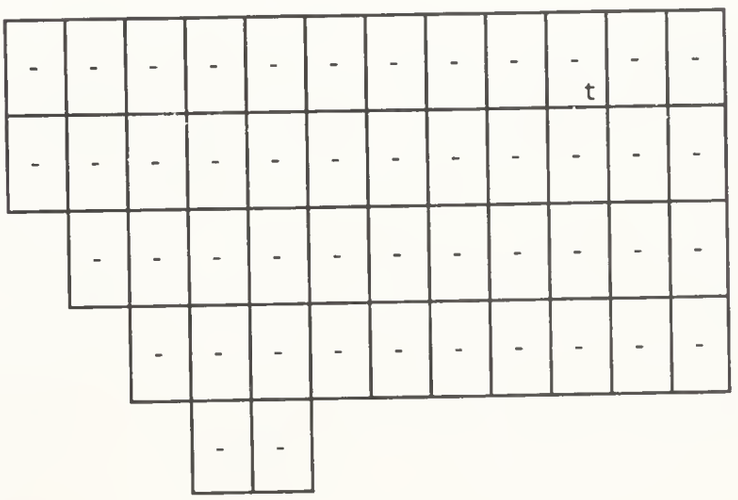

Pied-billed Grebe

Podilymbus podiceps

1991-95 = 75

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WWW------w--
WW----------
 W-WW-------
  -WWW-W----
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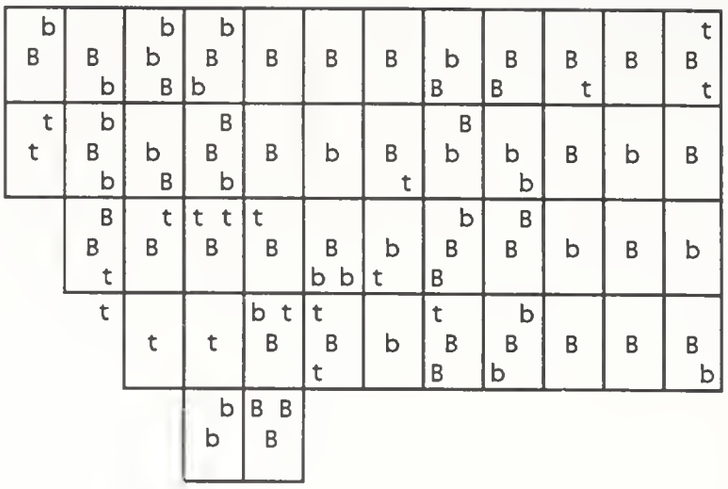

Horned Grebe

Podiceps auritus

1991-95 = 40

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WWW---------
WW--W-------
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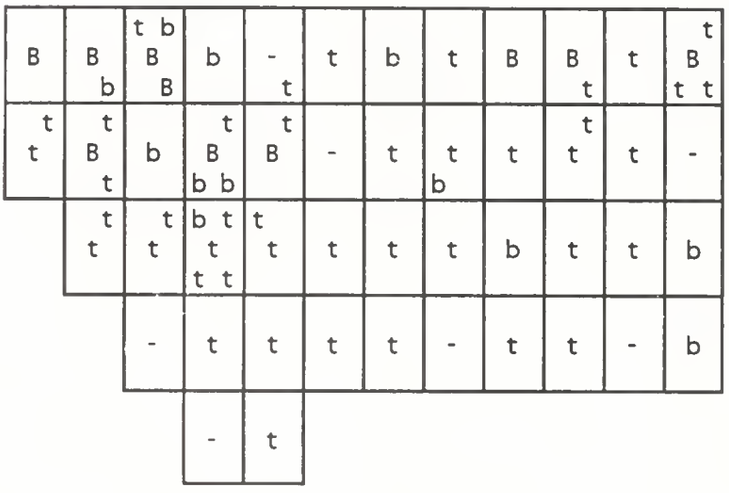

Red-necked Grebe

Podiceps grisegena

1991-95 = 68

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WWW---------
-W----------
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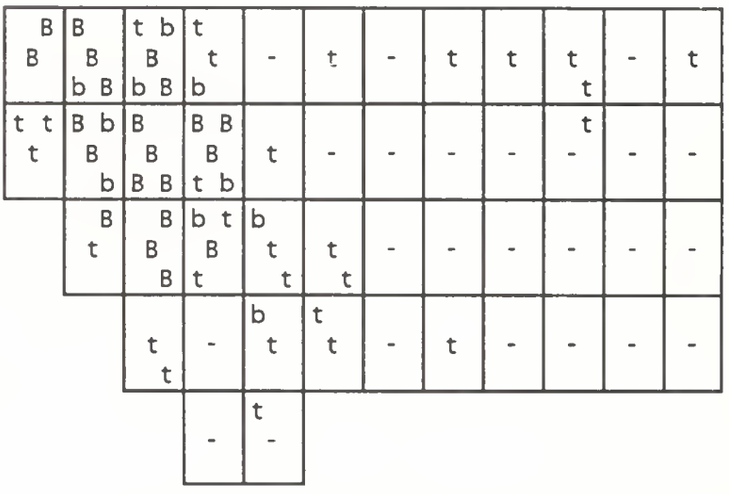

Eared Grebe

Podiceps nigricollis

1991-95 = 92

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-WW---------
-W--W-------
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  --WW------
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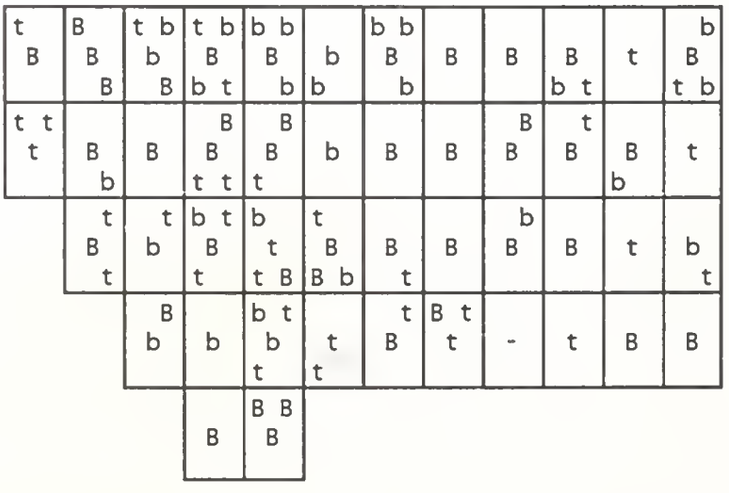

Western Grebe
Aechmophorus occidentalis
1991-95 = 72

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WWW---------
----W-------
 ---W-------
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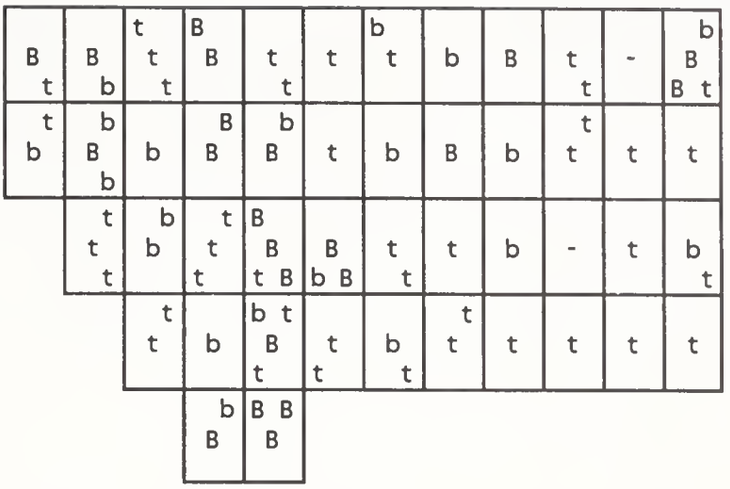

Clark's Grebe
Aechmophorus clarkii
1991-95 = 29

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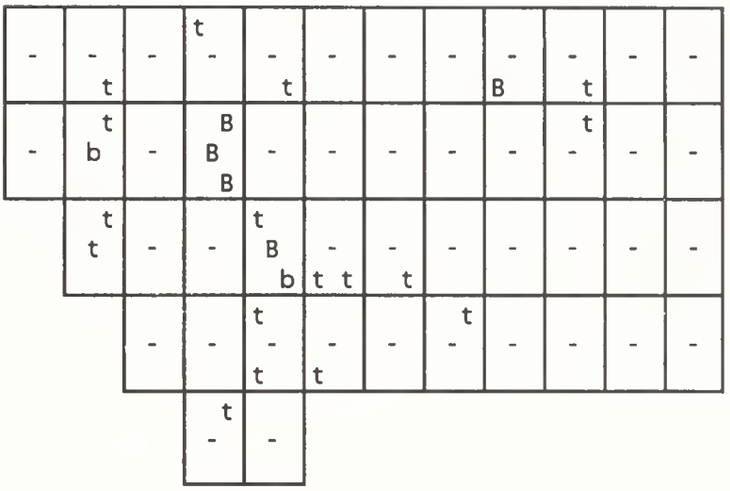

◘ PELECANIFORMES ■ Pelecanidae

American White Pelican
Pelecanus erythrorhynchos
1991-95 = 118
TES

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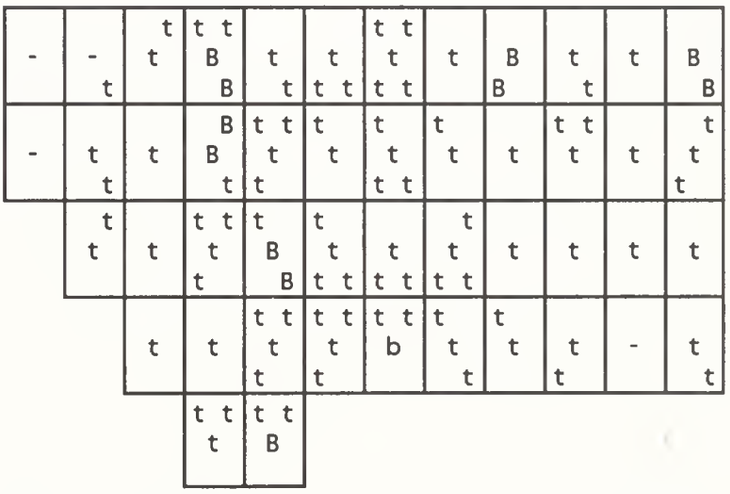

■ Phalacrocoracidae

Double-crested Cormorant
Phalacrocorax auritus
1991-95 = 105
SI

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-W----------
----W-------
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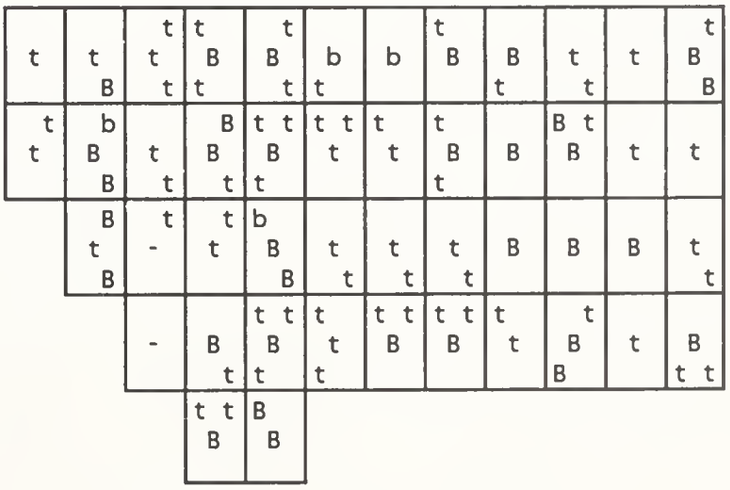

American Bittern

Botaurus lentiginosus

1991-95 = 30

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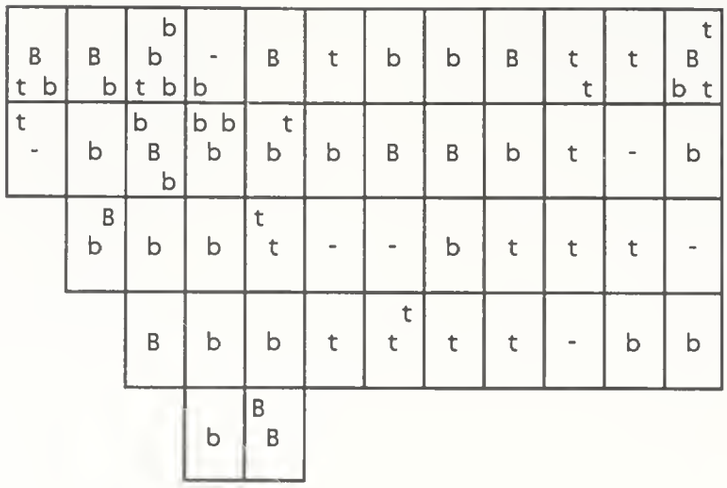

Least Bittern

Ixobrychus exilis

1991-95 = 0; 1976 - LL 10

n = 4

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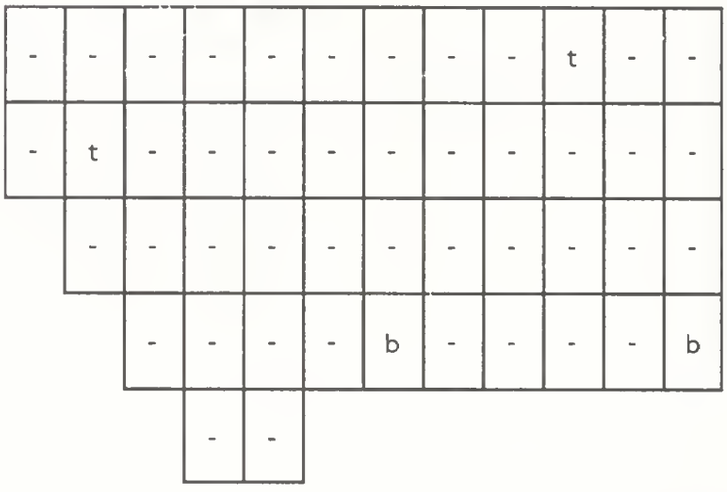

Great Blue Heron

Ardea herodias

1991-95 = 209

SI

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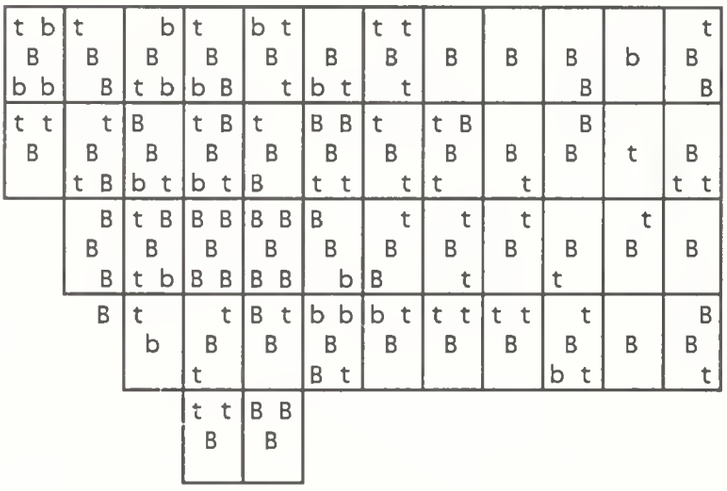
WW--W-------
WWW---W-----
 WWWW----W--
  WWWW-WWW--
   -W
```



Great Egret

Ardea alba

1991-95 = 3; 1994 - QLL 9C

n = 22

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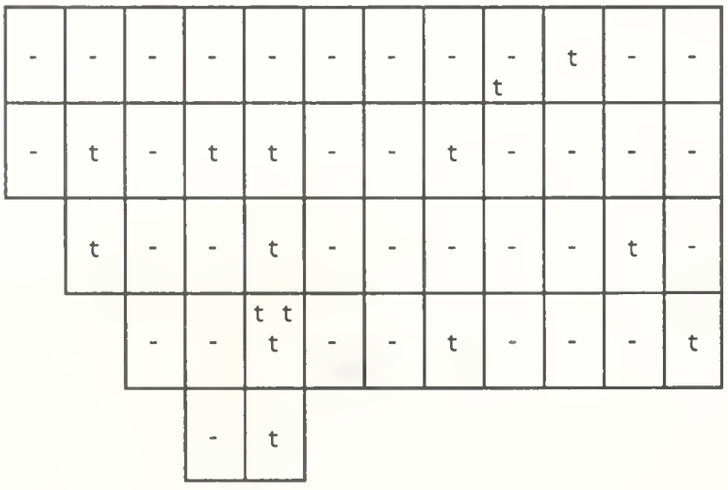
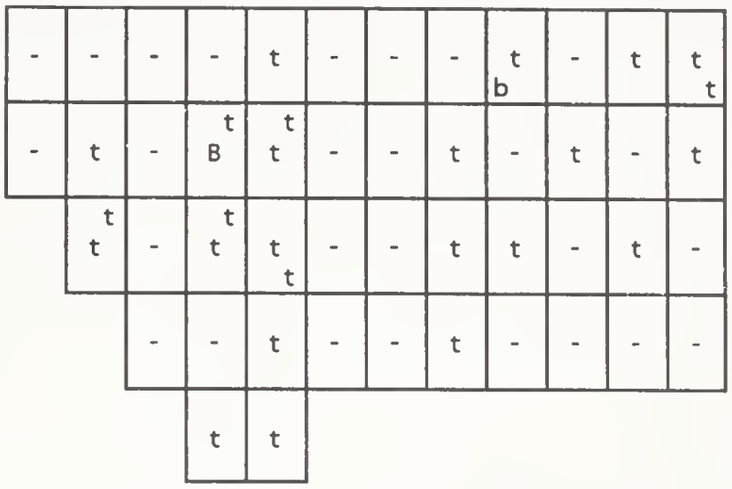


Snowy Egret

Egretta thula

1991-95 = 12

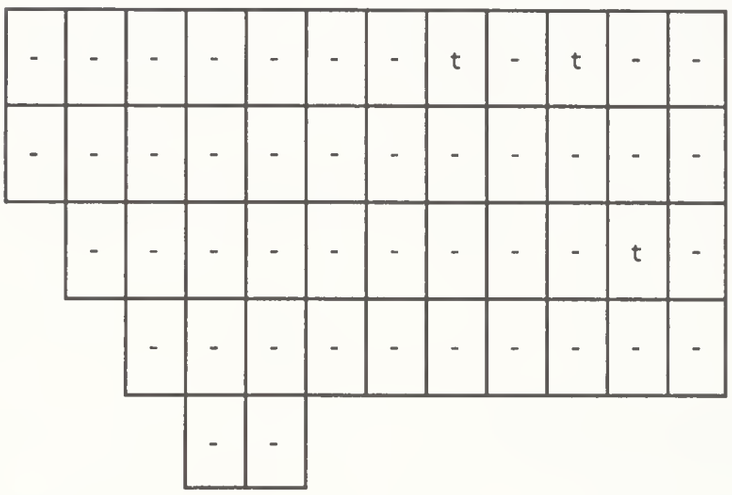


Little Blue Heron

Egretta caerulea

1991-95 = 0; 1987 - QLL 10D

n = 4

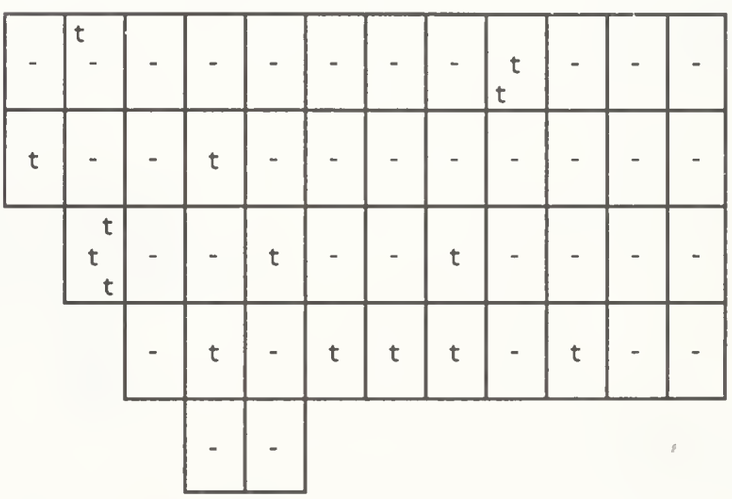


Cattle Egret

Bubulcus ibis

1991-95 = 7; 1994 - QLL 25D

n = 20

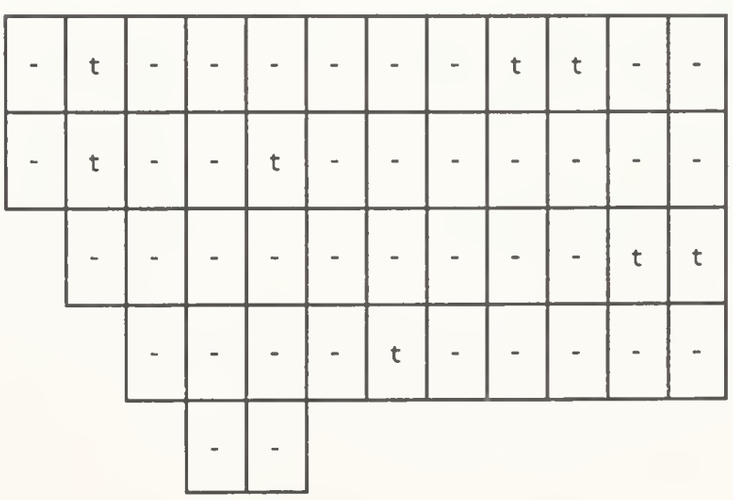


Green Heron

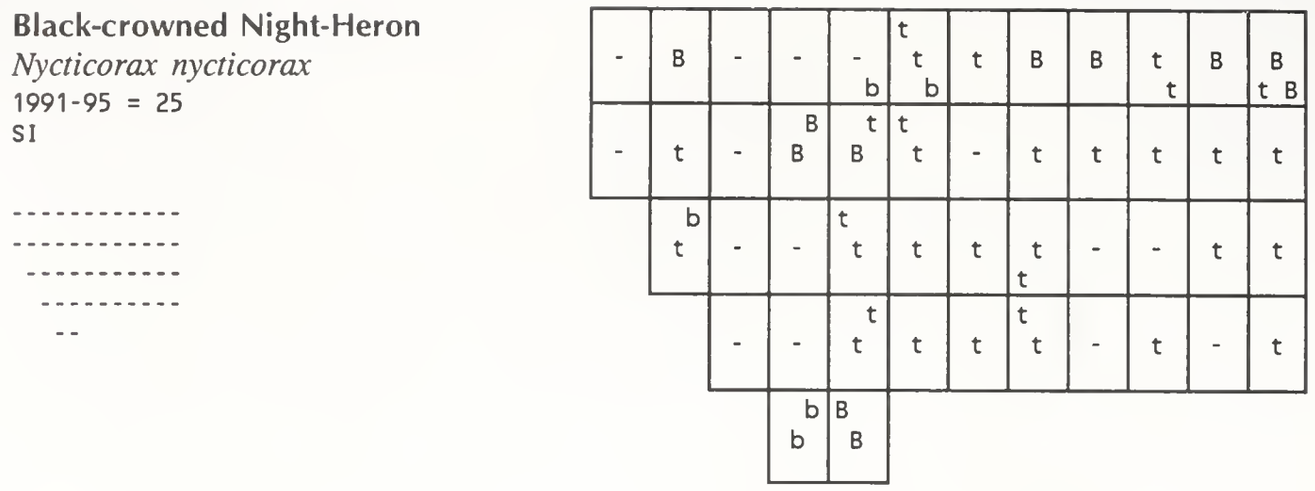
Butorides virescens

1991-95 = 0; 1985 - QLL 9C

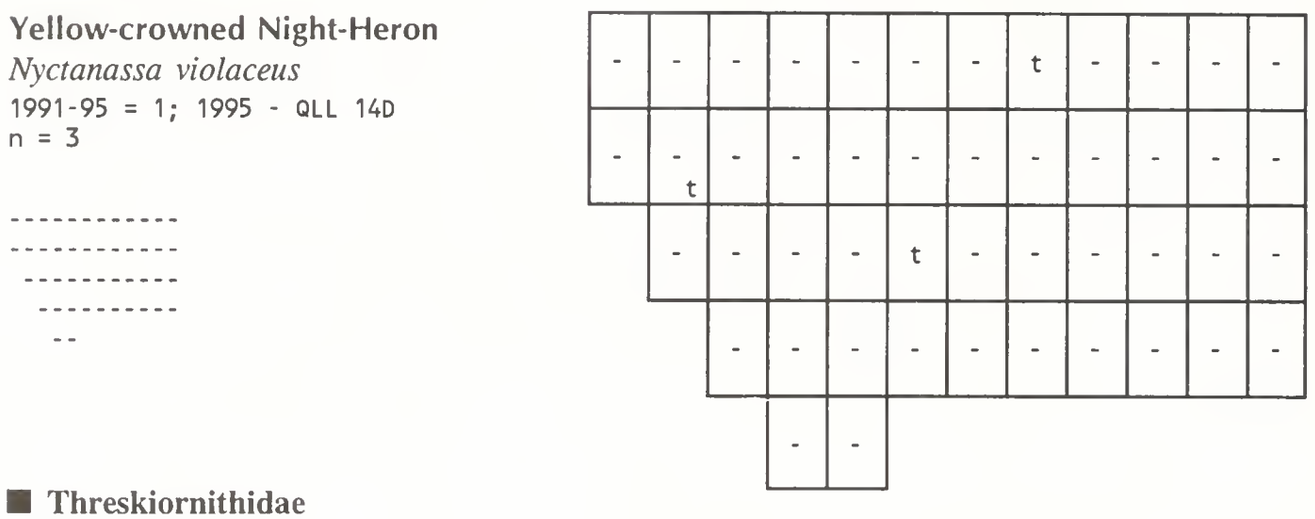
n = 9



Black-crowned Night-Heron
Nycticorax nycticorax
1991-95 = 25
SI

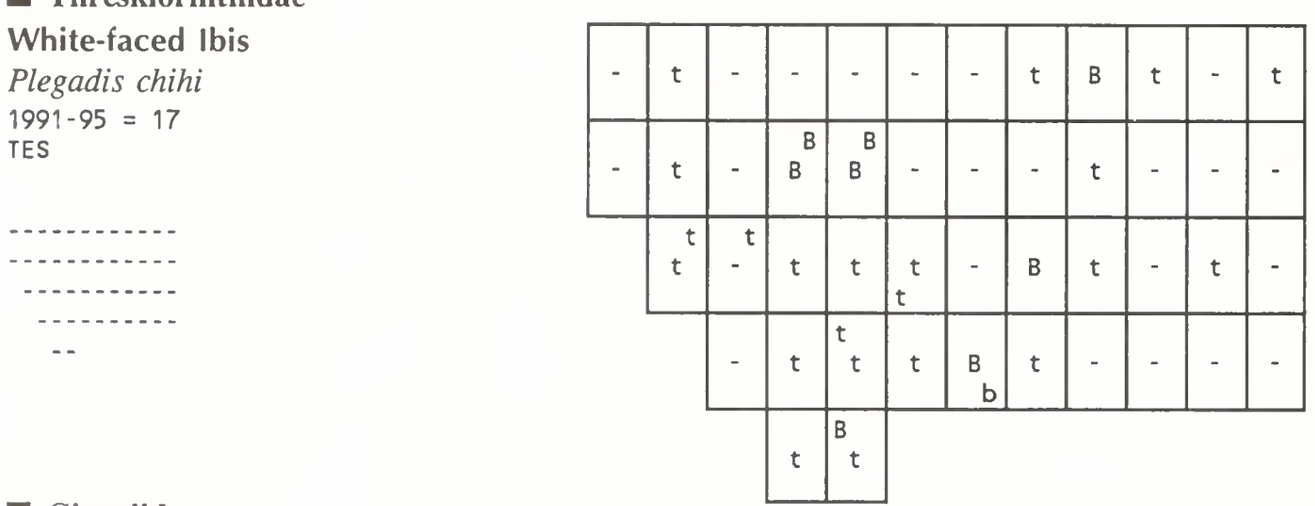


Yellow-crowned Night-Heron
Nyctanassa violaceus
1991-95 = 1; 1995 - QLL 14D
n = 3



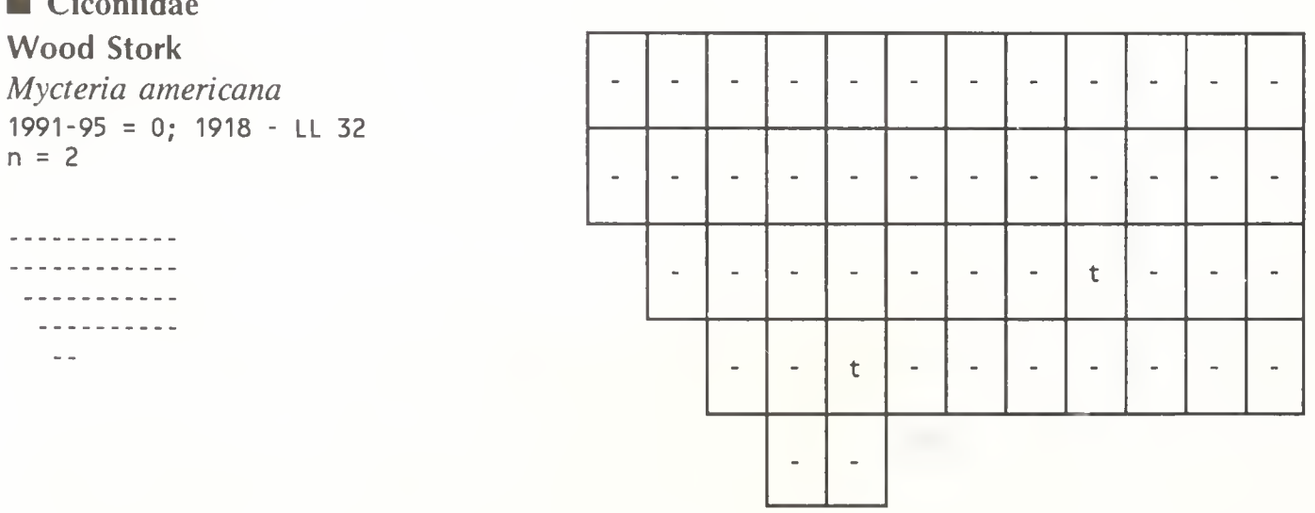
■ Threskiornithidae

White-faced Ibis
Plegadis chihi
1991-95 = 17
TES



■ Ciconiidae

Wood Stork
Mycteria americana
1991-95 = 0; 1918 - LL 32
n = 2

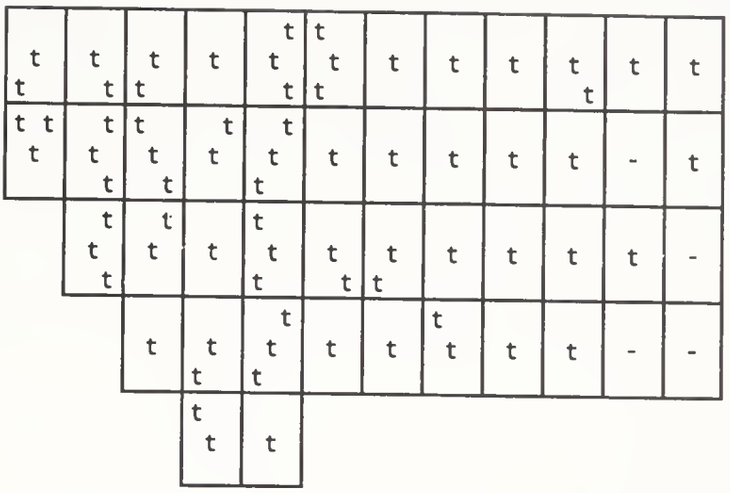


Tundra Swan

Cygnus columbianus

1991-95 = 61

```
-W--W-------
WWWWW-------
 WW-W-------
  --WW-W----
   -W
```



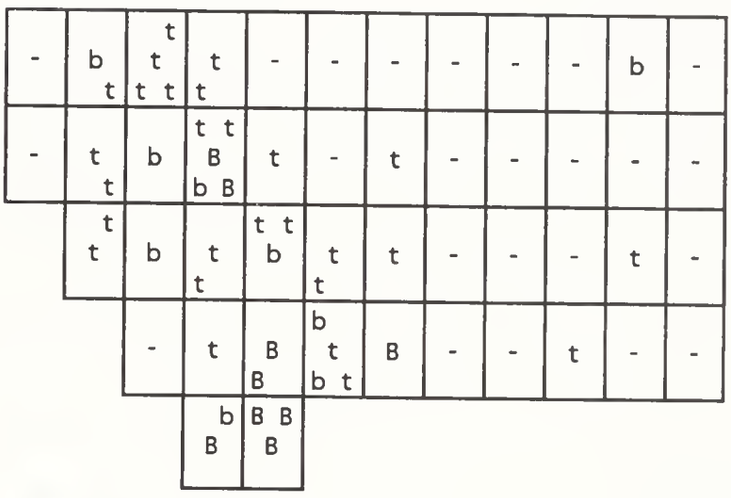
Trumpeter Swan

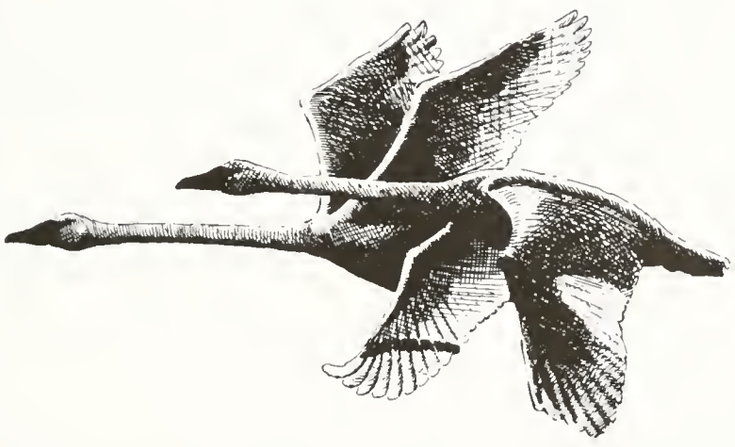
Cygnus buccinator

1991-95 = 46

TES

```
-W----------
-W--W-------
 W----------
  --WW---W--
   -W
```





Mute Swan

Cygnus olor

1991-95 = 3

SI (introduced)

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  ---W------
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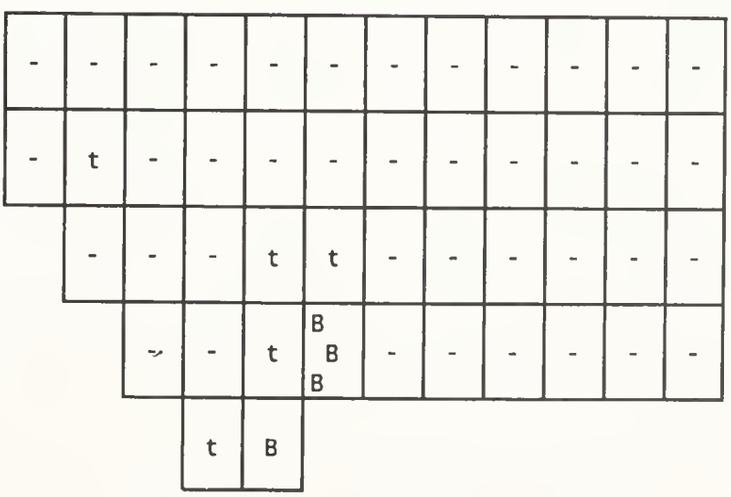

Greater White-fronted Goose

Anser albifrons

1991-95 = 15

```
-w----------
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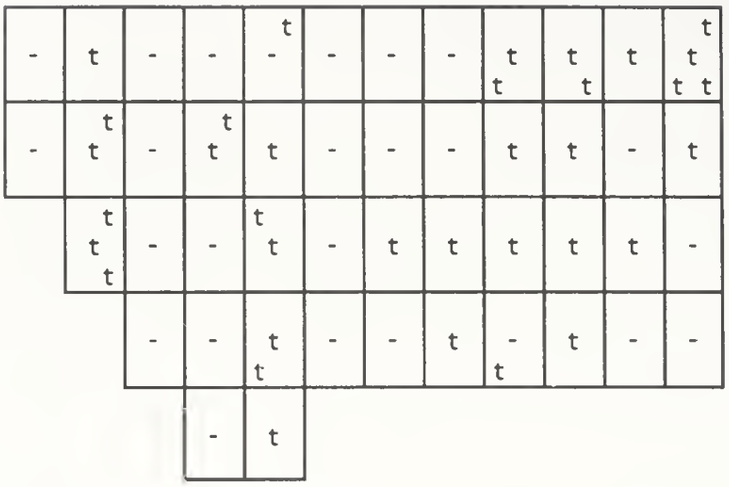
 ---w-------
  --w-------
   --
```

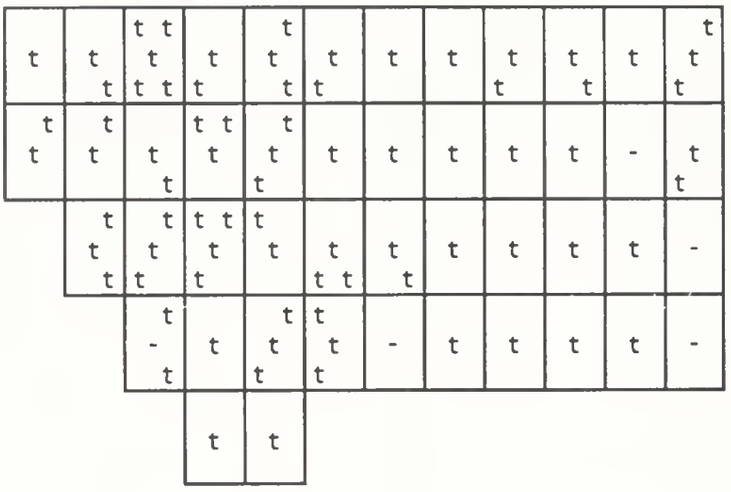


Snow Goose

Chen caerulescens

1991-95 = 58

```
ww----------
-w----------
 --ww---ww--
  --ww-w----
   --
```



Ross' Goose

Chen rossii

1991-95 = 20

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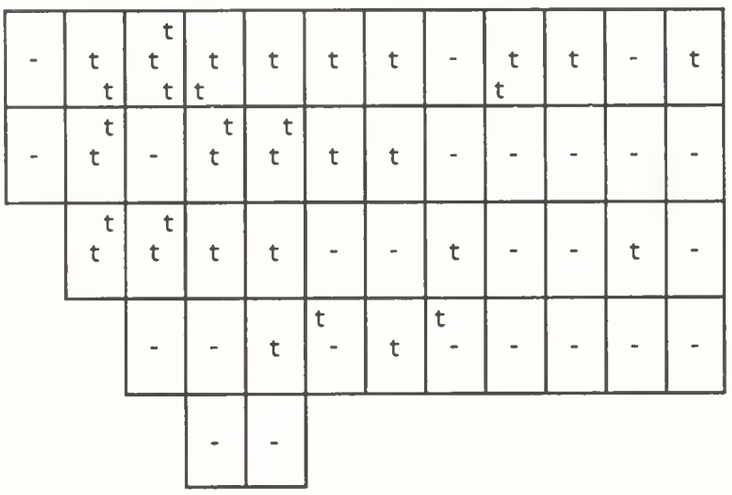
```



Brant

Branta bernicla

1991-95 = 0; 1980 - LL 16

n = 7

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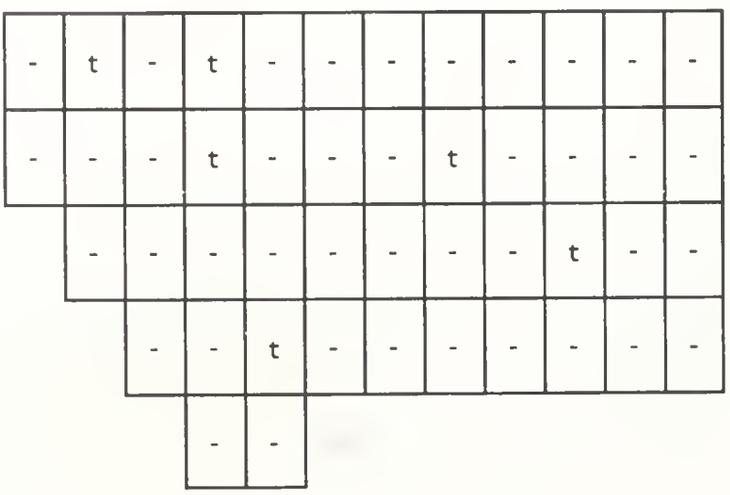
```

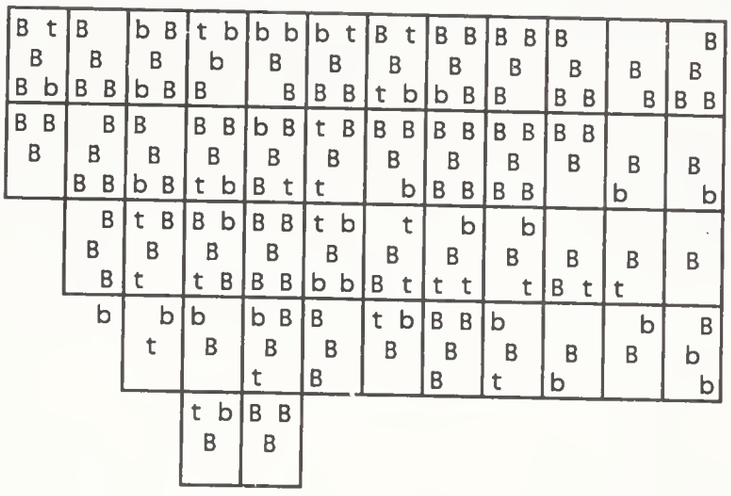


Canada Goose

Branta canadensis

1991-95 = 285

```
WWW-WWW-WW-W
WWWWWW-WWW-W
 WwwWw--WWW-
  -WWWWWWWW-
   WW
```

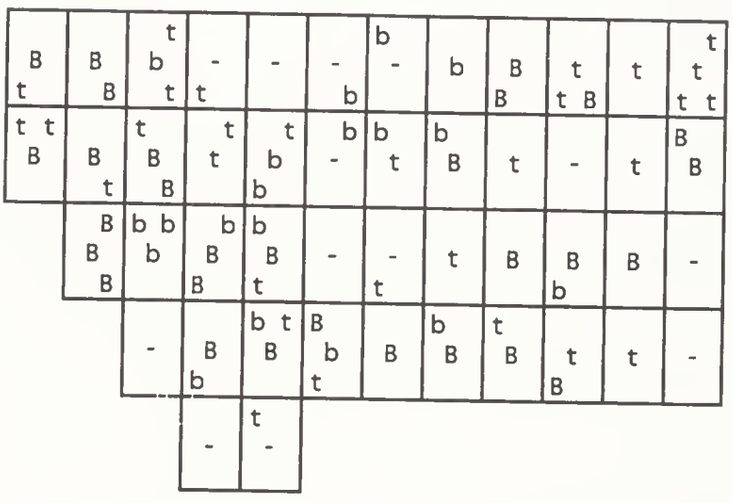


Wood Duck

Aix sponsa

1991-95 = 78

```
WW------W---
-W--W-------
 W-WW-------
  --W--Ww---
   --
```

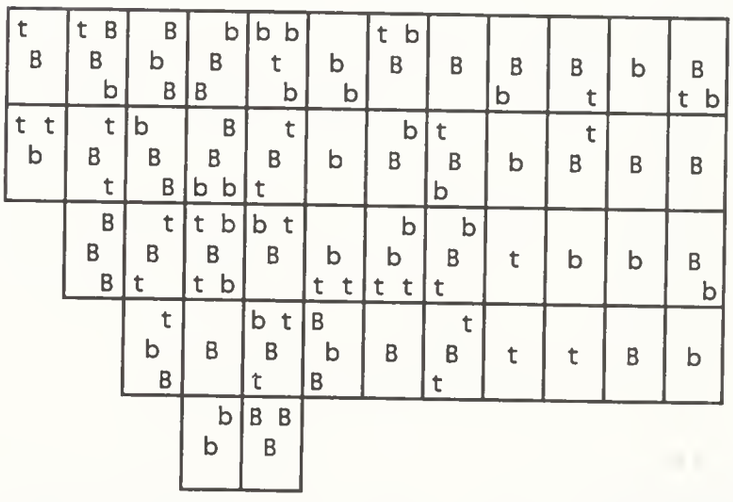


Green-winged Teal

Anas crecca

1991-95 = 107

```
WW------W---
WW-WWWW-----
 WWww-------
  --WW-ww---
   ww
```



American Black Duck

Anas rubripes

1991-95 = 4

```
---------W-W
----W-------
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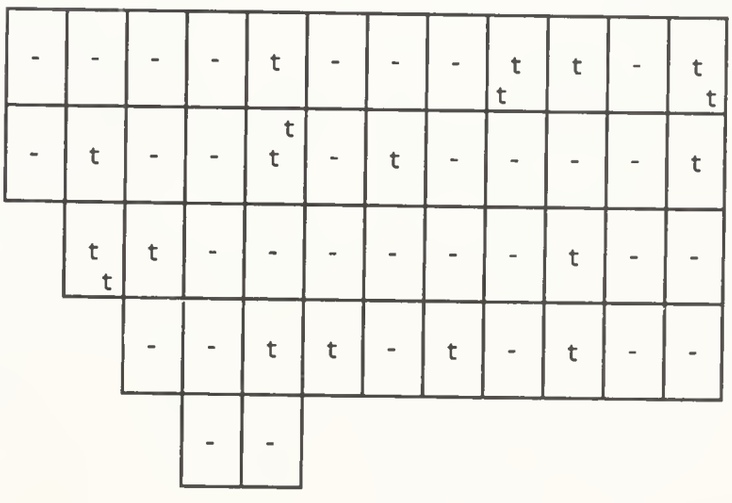
  ---W-W----
   --
```

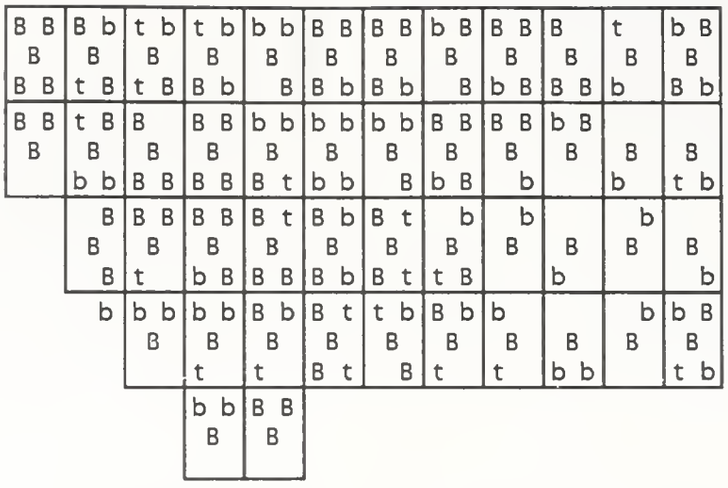


Mallard

Anas platyrhynchos

1991-95 = 386

```
WWwwWWWWWWW-
WWWWWWWWww-w
 WWWWWWWWWWW
  -WWWWWWWW-
   WW
```

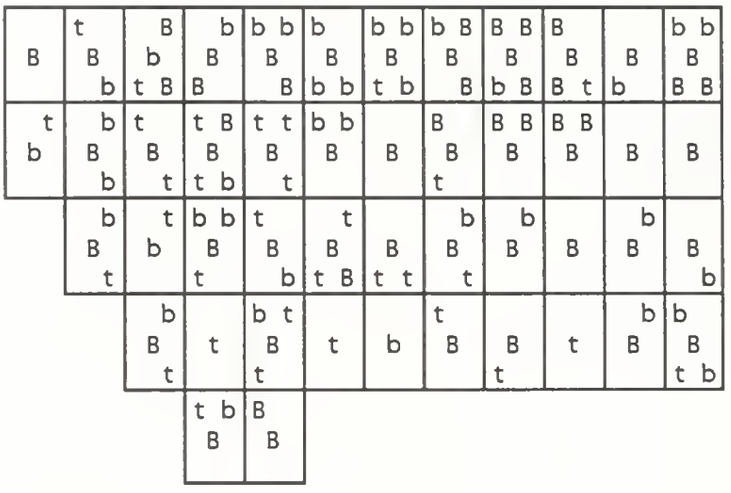


Northern Pintail

Anas acuta

1991-95 = 139

```
WW------WW--
WW-wwww-----
 WWWW-------
  -WWW-WW---
   -W
```



Garganey

Anas querquedula

1991-95 = 3; 1993 - QLL 9C

n = 4

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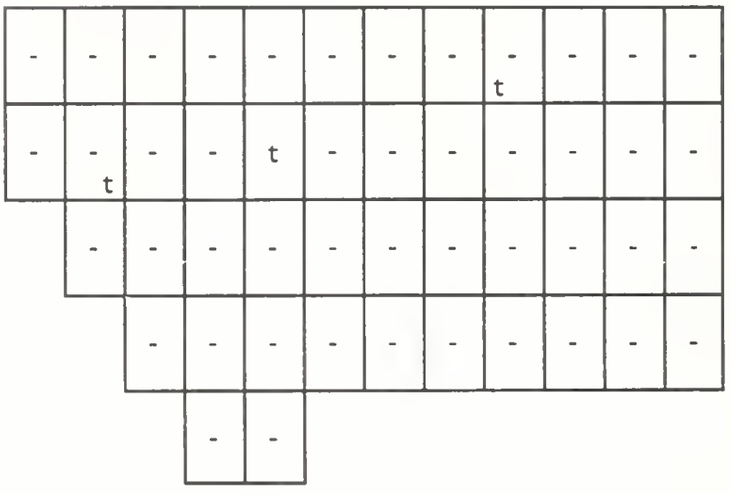
```

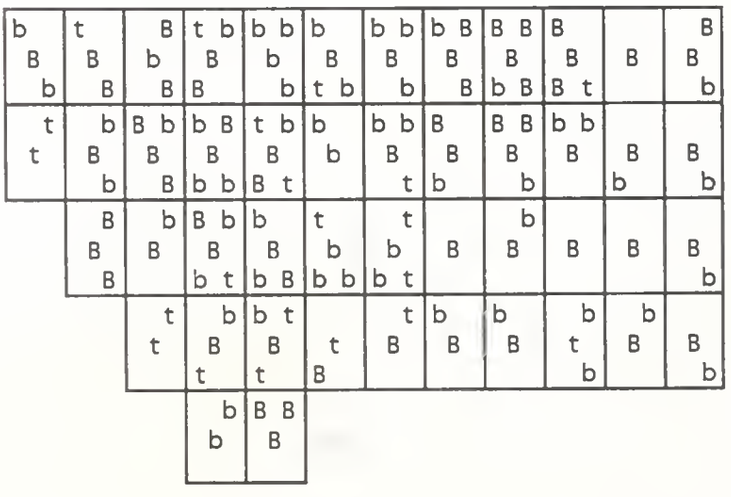


Blue-winged Teal

Anas discors

1991-95 = 152

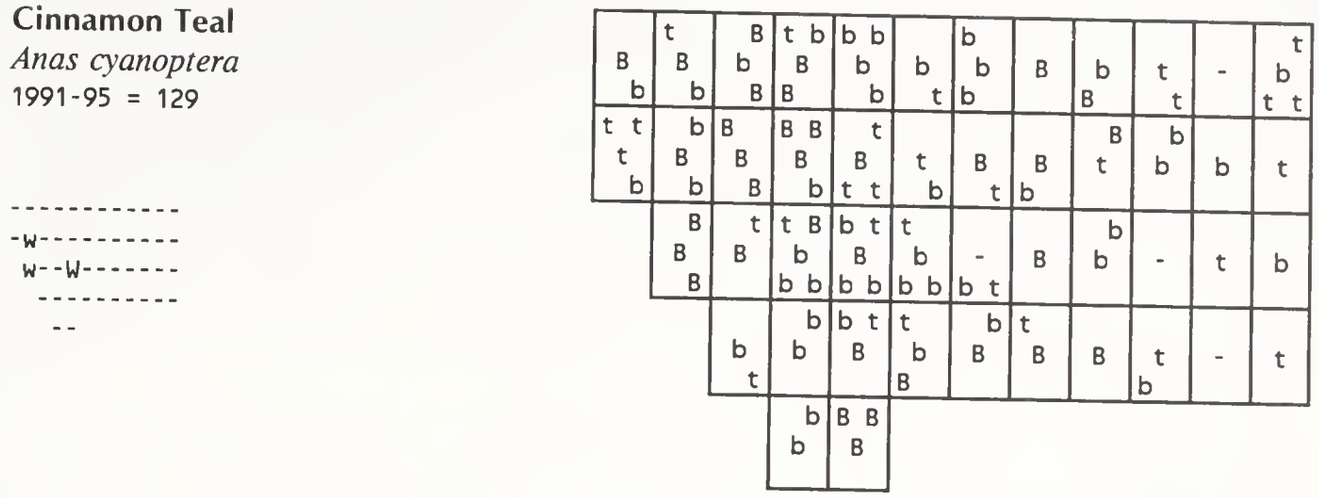
```
-w----------
----w-------
 w--w-------
  --w--w----
   --
```



Cinnamon Teal

Anas cyanoptera

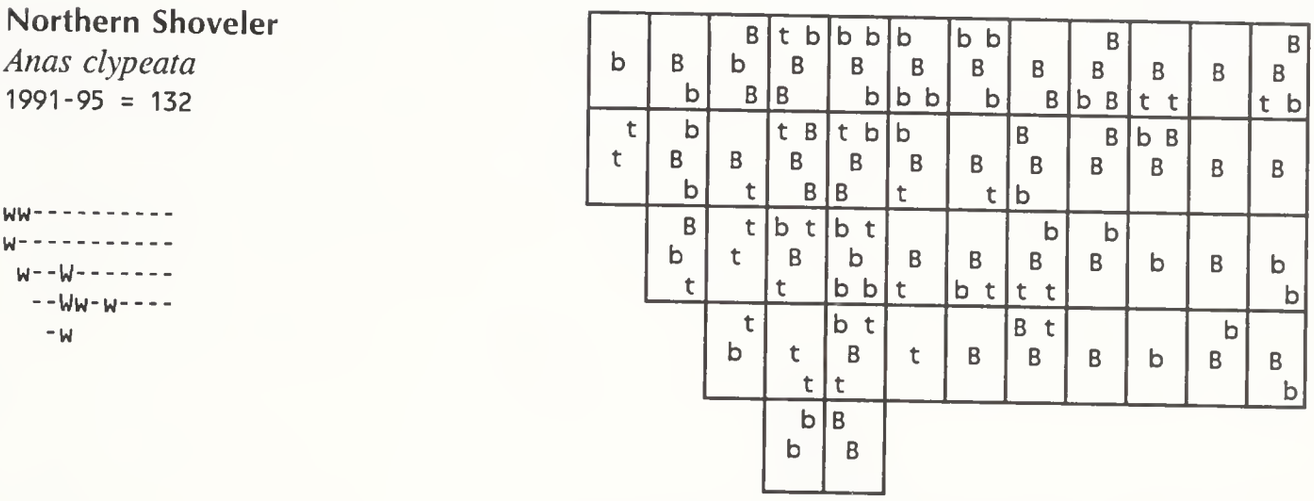
1991-95 = 129



Northern Shoveler

Anas clypeata

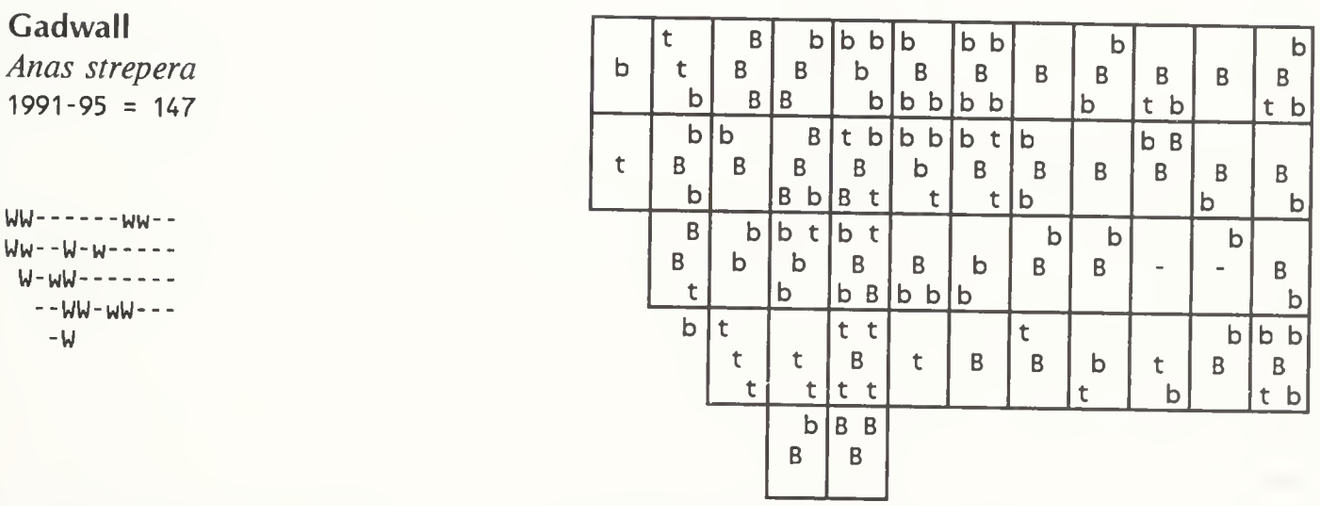
1991-95 = 132



Gadwall

Anas strepera

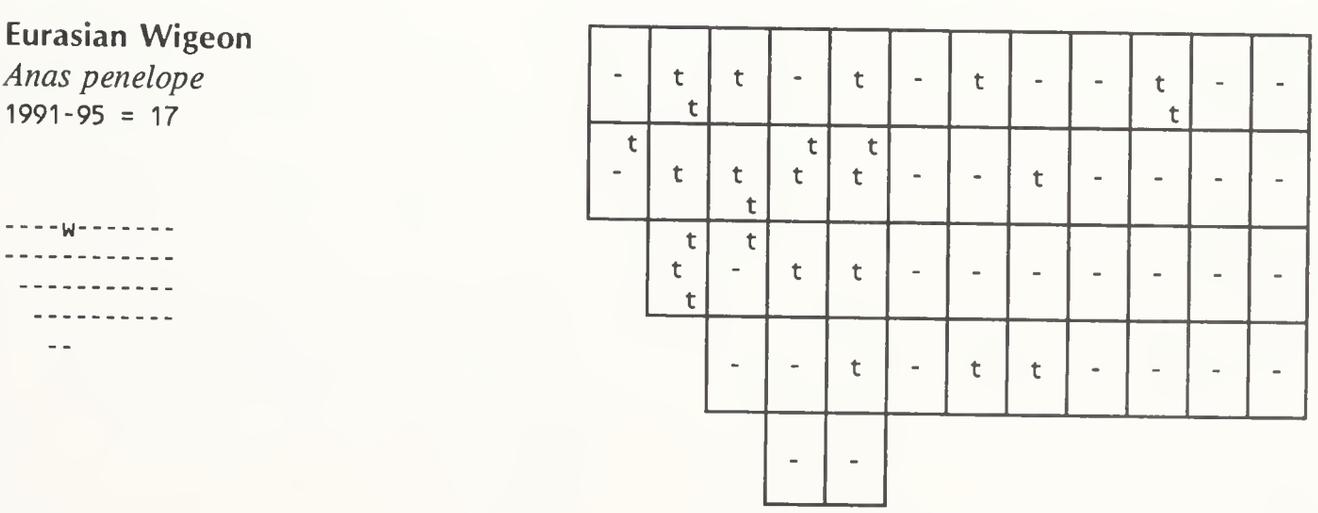
1991-95 = 147



Eurasian Wigeon

Anas penelope

1991-95 = 17

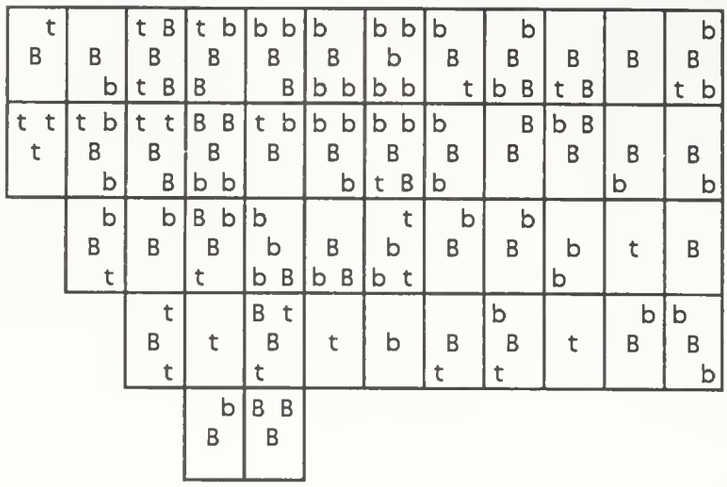


American Wigeon

Anas americana

1991-95 = 156

```
Www-w---Ww--
Ww--ww------
 WW-W----ww-
  --WW-WW---
   -W
```

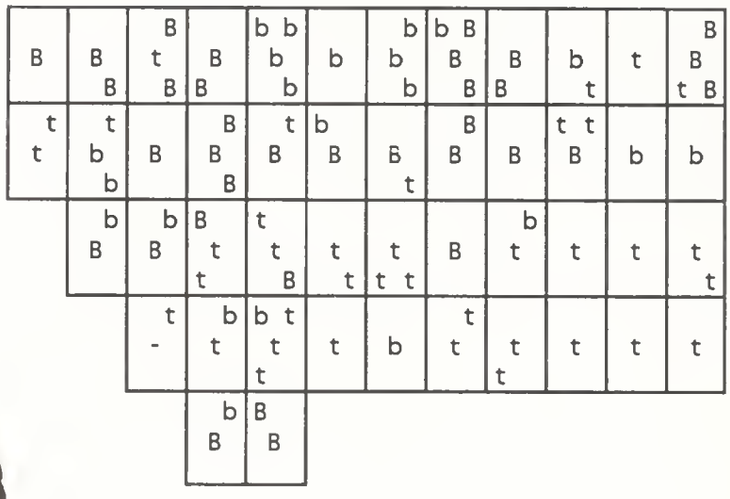


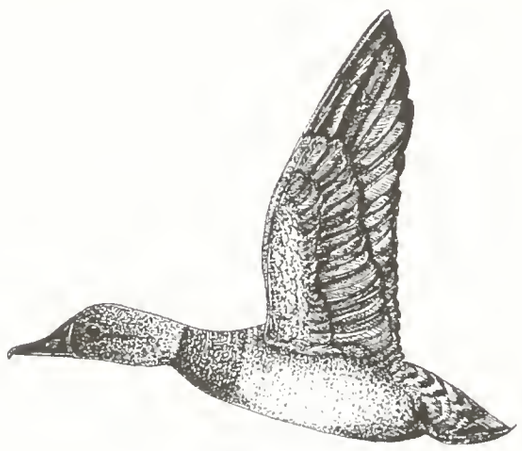
Canvasback

Aythya valisineria

1991-95 = 84

```
WWW---------
Ww--W-------
 W----------
  --WW--W---
   -w
```



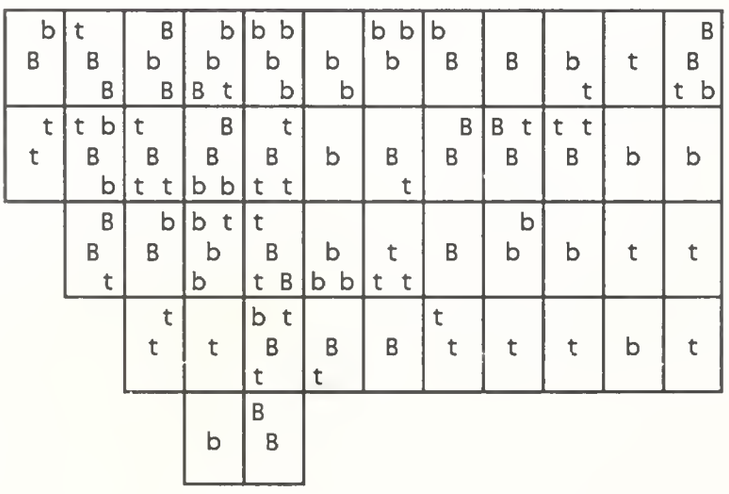


Redhead

Aythya americana

1991-95 = 101

```
WW--W----w--
WW--W-------
 W----------
  --WW-ww---
   -w
```

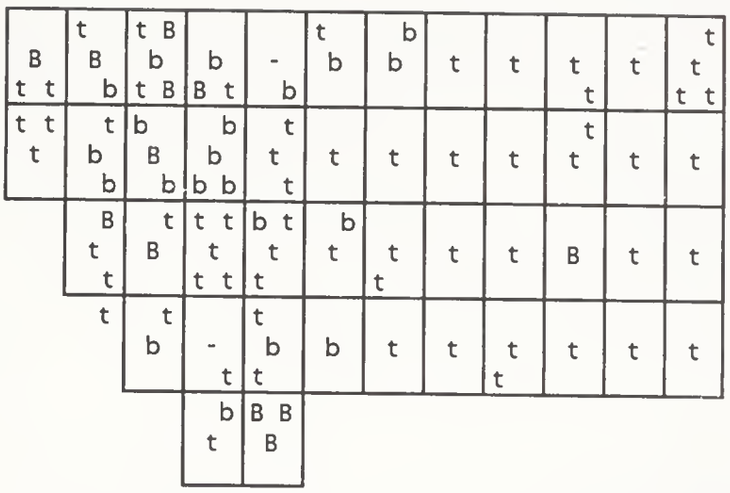


Ring-necked Duck

Aythya collaris

1991-95 = 88

```
Www---------
Ww--w-------
 W--w-------
  --W-------
   -w
```

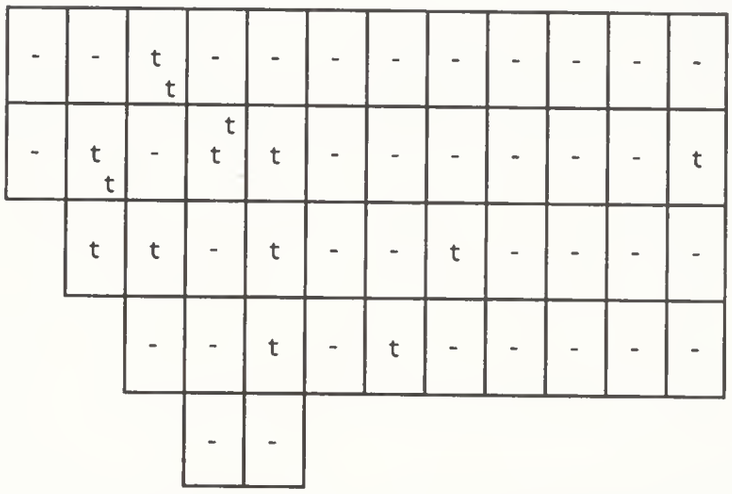


Greater Scaup

Aythya marila

1991-95 = 4

```
-ww---------
----w-------
 w--w-------
  --w-------
   --
```

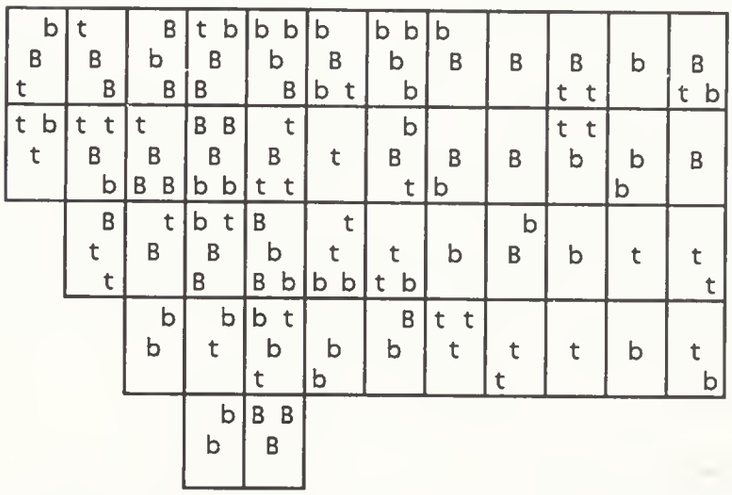


Lesser Scaup

Aythya affinis

1991-95 = 129

```
Ww--W----w--
ww--W-------
 W-Ww-------
  --WW-ww---
   -w
```



Harlequin Duck

Histrionicus histrionicus

1991-95 = 45

TES

```
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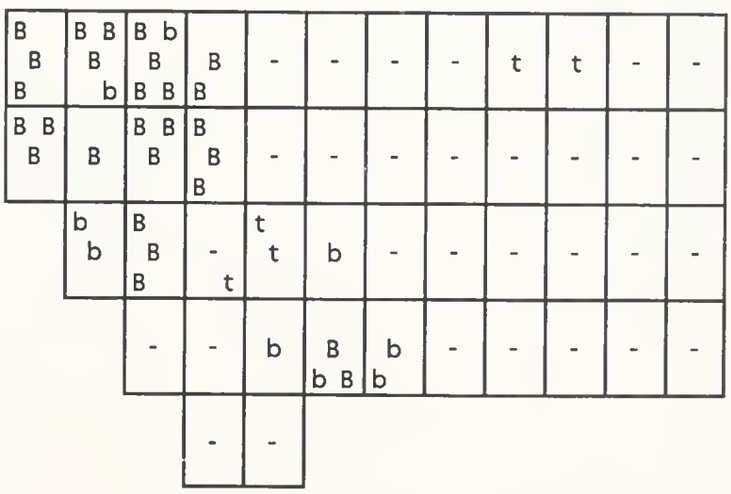
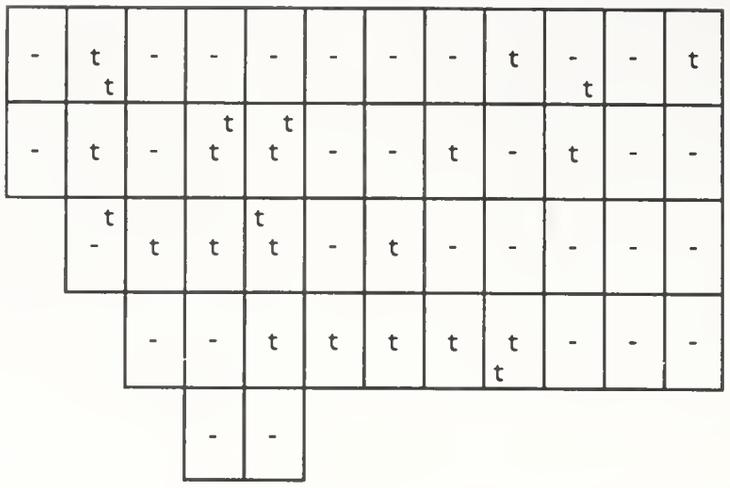
 -W---------
  ----------
   --
```



Oldsquaw
Clangula hyemalis
1991-95 = 12

```
-w----------
----W----w--
 -w-w-------
  -----w----
   --
```



Black Scoter
Melanitta nigra
1991-95 = 1; 1994 - QLL 41B
n = 5

```
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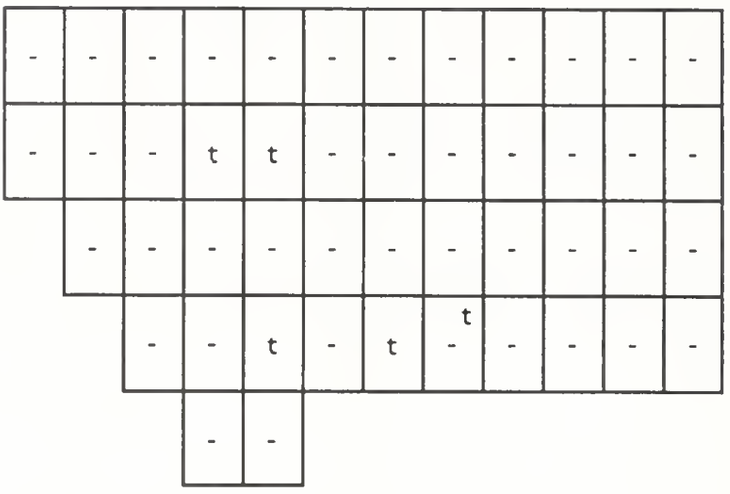
  ----------
   --
```



Surf Scoter
Melanitta perspicillata
1991-95 = 8

```
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-----------
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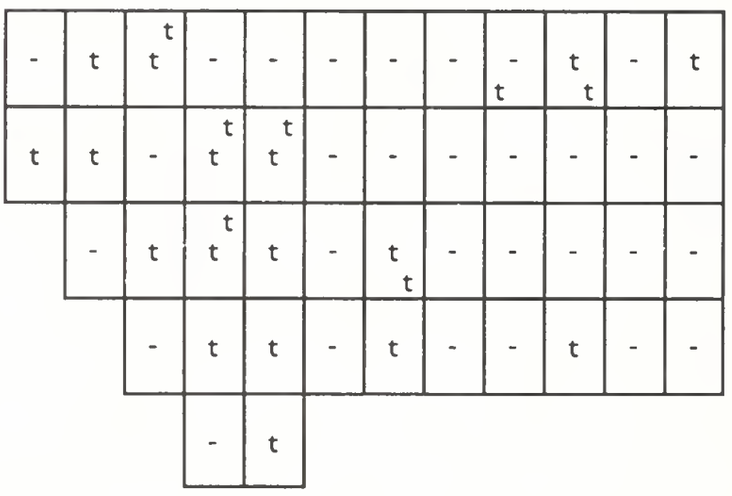
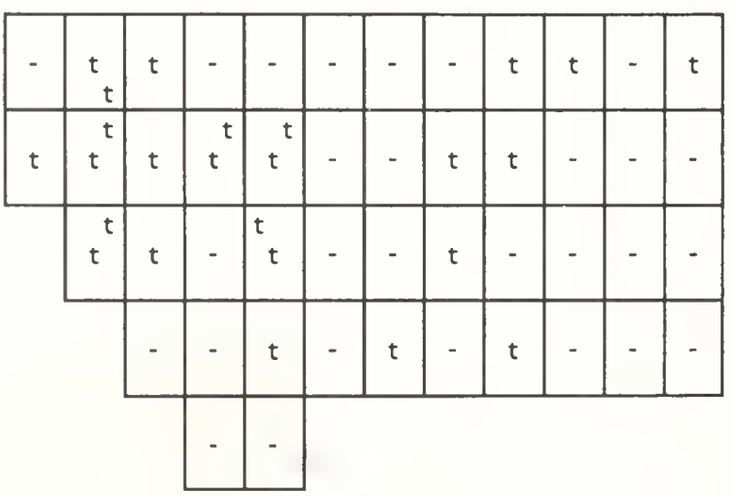
  ----------
   --
```



White-winged Scoter
Melanitta fusca
1991-95 = 10

```
-w----------
-----------
 w--w-------
  ----------
   --
```

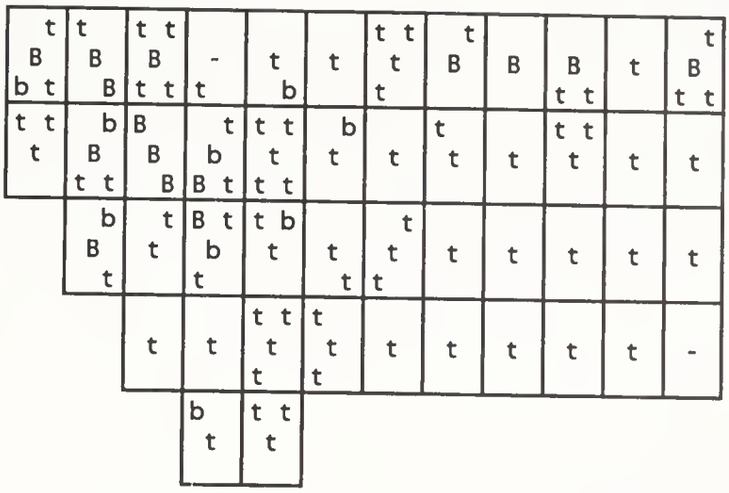


Common Goldeneye

Bucephala clangula

1991-95 = 115

```
WWW-WWWWWW--
WWWWWWW-ww-w
 WWWW---WWWW
  -WWWWWWW--
   ww
```

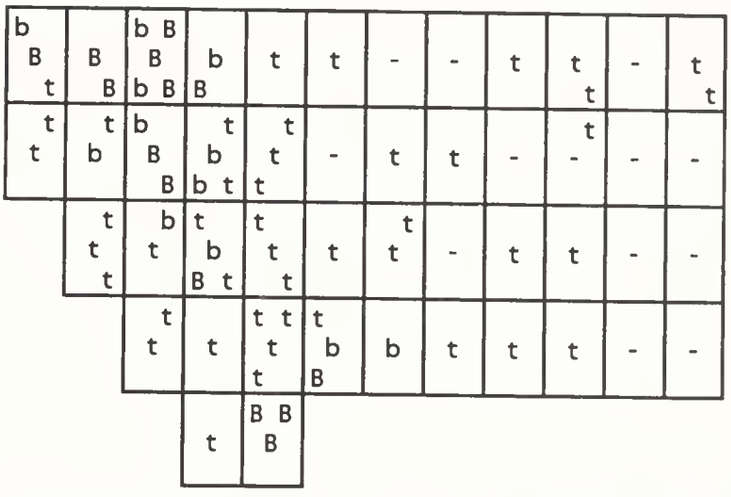


Barrow's Goldeneye

Bucephala islandica

1991-95 = 71

```
WWW-W---ww--
ww--W-w-----
 WWWW-------
  -WWW-WWW--
   ww
```

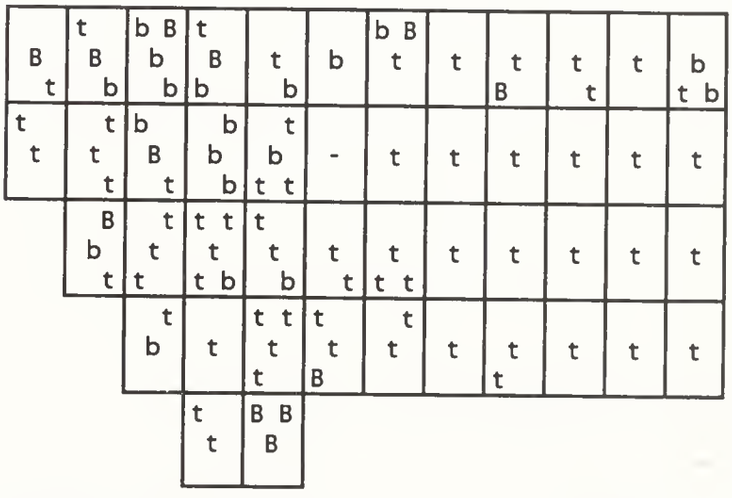


Bufflehead

Bucephala albeola

1991-95 = 91

```
WWW------w--
Ww-WW-w-----
 W-WW-------
  -WWW-ww---
   WW
```

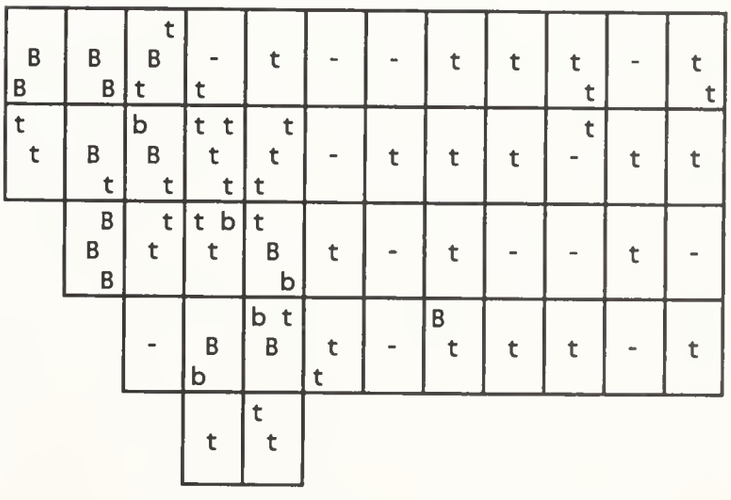


Hooded Merganser

Lophodytes cucullatus

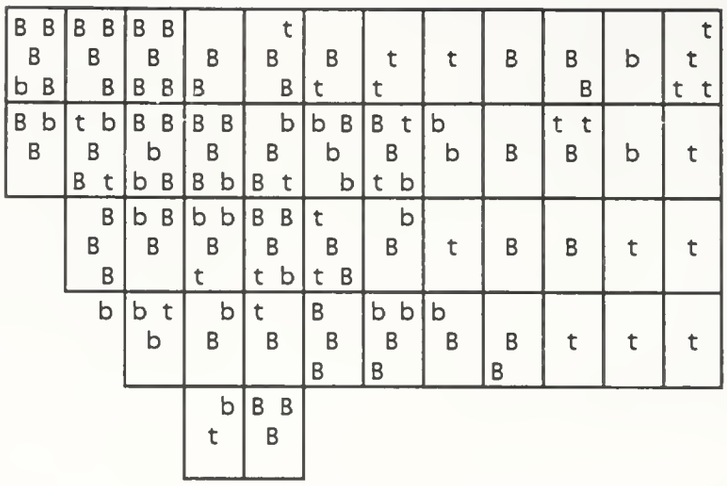
1991-95 = 61

```
WWW-W---W---
Ww--W-w-----
 WWWW-------
  --WW-W----
   -W
```



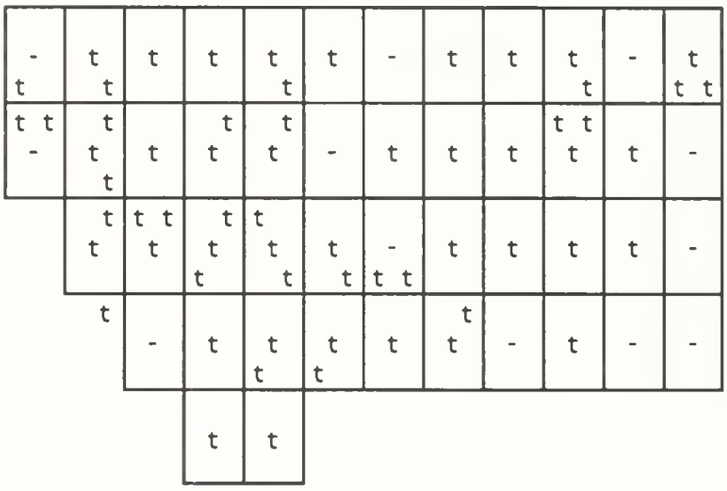
Common Merganser
Mergus merganser
1991-95 = 170

```
WWW-WW--WW--
WWW-WWW--W-W
 WW-W---WWWW
  -WWWWWWW--
   --
```



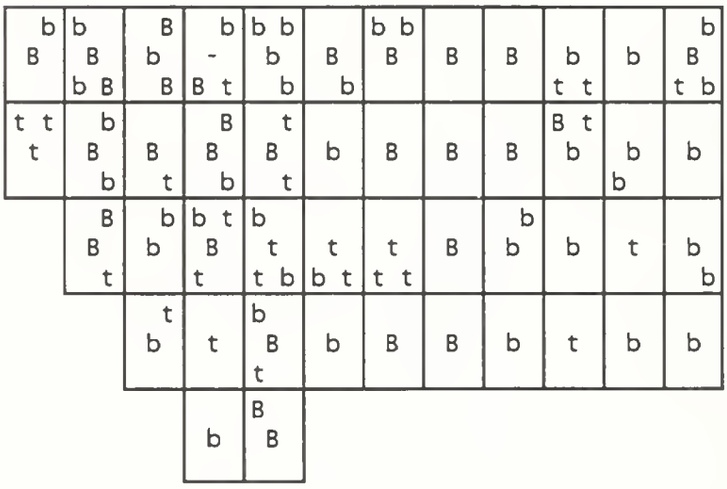
Red-breasted Merganser
Mergus serrator
1991-95 = 40

```
WW----------
W-----------
 W--W-------
  --WW-W----
   --
```



Ruddy Duck
Oxyura jamaicensis
1991-95 = 82

```
WW----------
WW--W-------
 W----------
  --WW------
   --
```



■ FALCONIFORMES ■ Cathartidae

Turkey Vulture
Cathartes aura
1991-95 = 80

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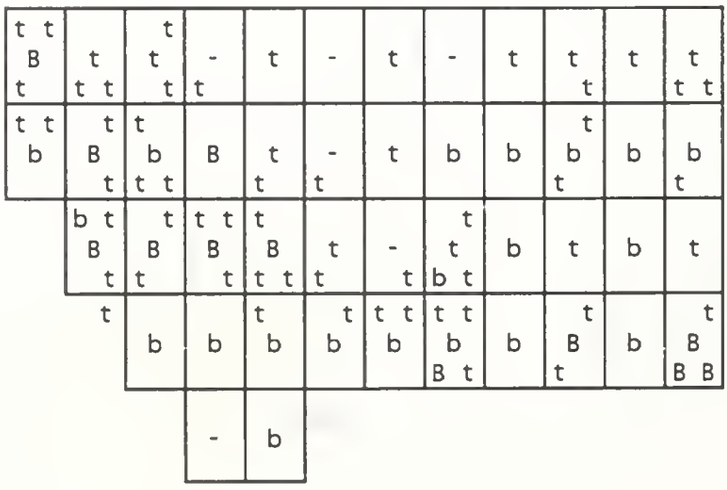
  ----------
   --
```



Osprey

Pandion haliaetus

1991-95 = 139

```
w----------
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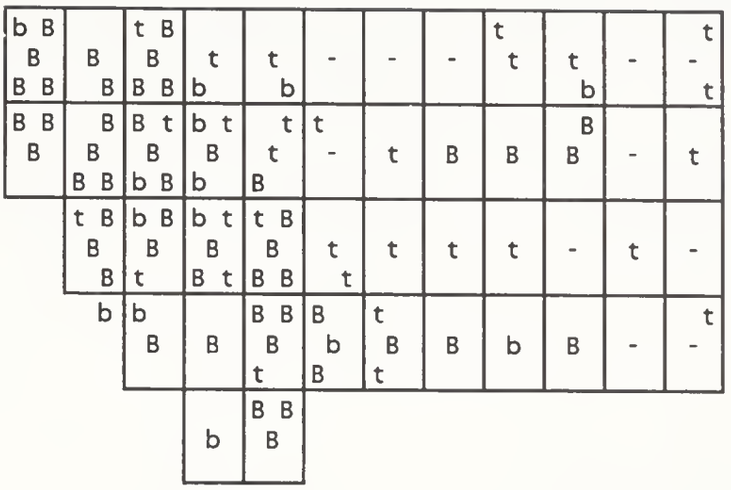
 ----------
  ----------
   --
```



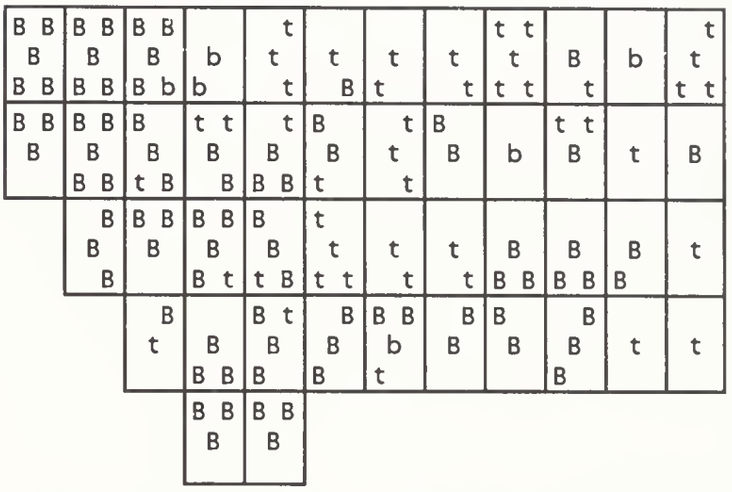
Bald Eagle

Haliaeetus leucocephalus

1991-95 = 210

TES

```
WWW-WW-wwWww
WWWWWWWWWw-W
 WWWWWWWWWW
  WWWWWWWWW
   WW
```

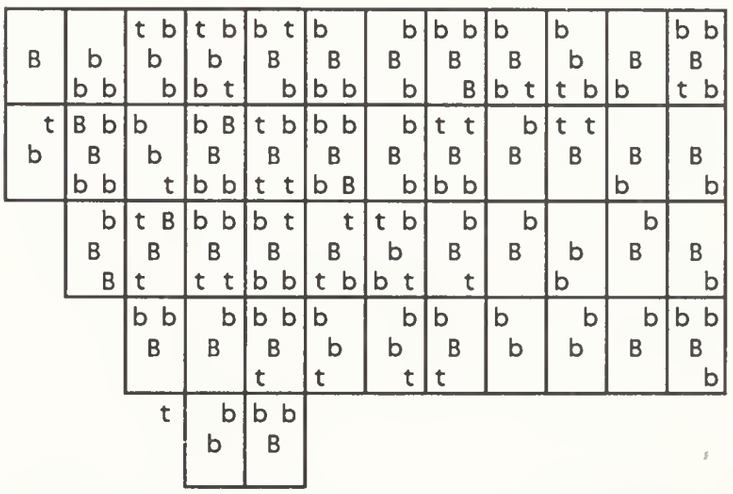


Northern Harrier

Circus cyaneus

1991-95 = 221

```
WW--Www-ww-w
WW-WW-www--w
 W-WWwwWwwww
  -WWwwWW-w
   WW
```

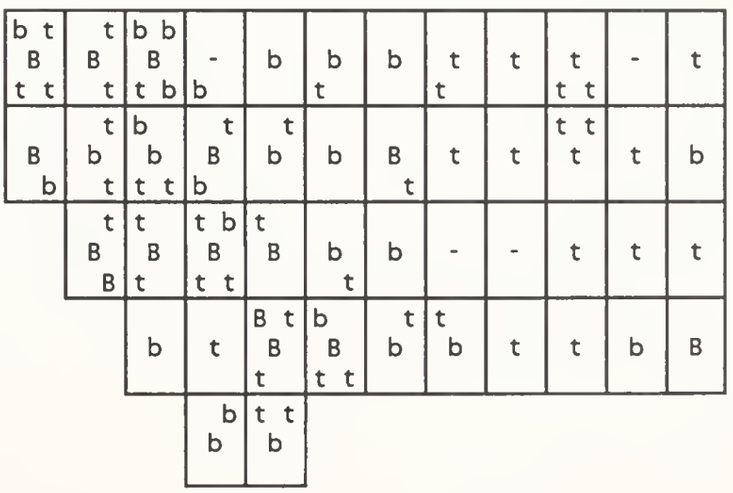


Sharp-shinned Hawk

Accipiter striatus

1991-95 = 81

```
WWWww-------
WWW-w-w-----
 WWww----ww-
  -WWW-W-w--
   -w
```

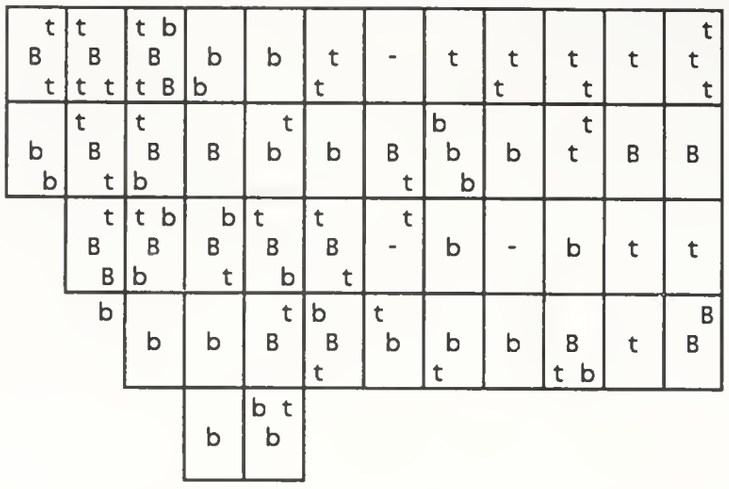


Cooper's Hawk

Accipiter cooperii

1991-95 = 77

```
WWW---------
Www-w-w-----
 wwww----w-w
  --Ww-W-w--
   w-
```



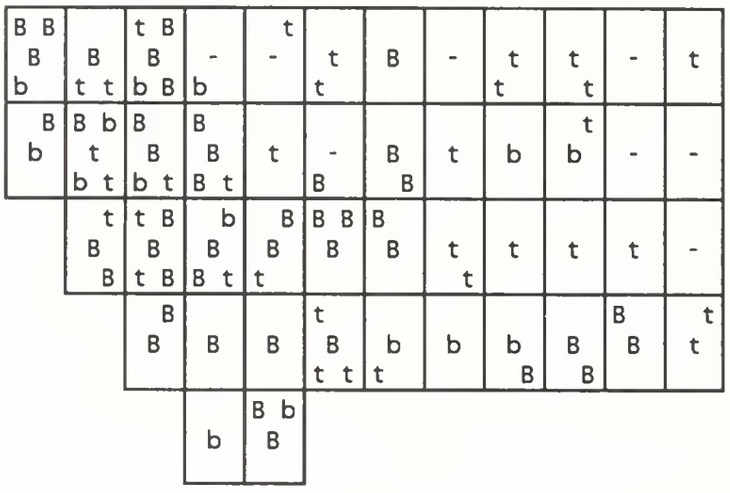
Northern Goshawk

Accipiter gentilis

1991-95 = 90

TES

```
WWW----WWW-W
-WWWW-ww----
 WwWWW-w-www
  -WWWww-W--
   -W
```



Red-shouldered Hawk

Buteo lineatus

1991-95 = 0; 1965 - LL 3

n = 2

```
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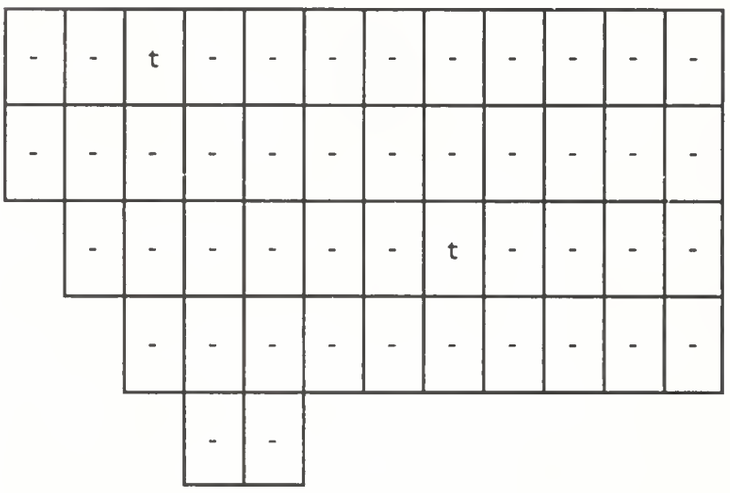
------------
 -----------
  ----------
   --
```



Broad-winged Hawk

Buteo platypterus

1991-95 = 10

```
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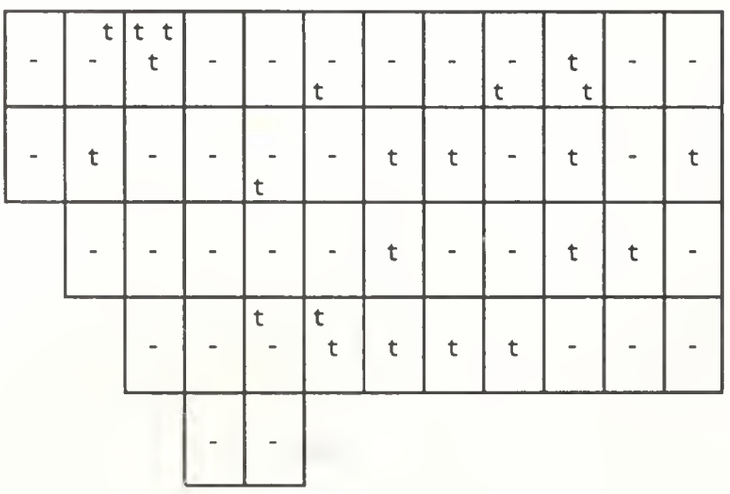
  ----------
   --
```



Swainson's Hawk

Buteo swainsoni

1991-95 = 119

```
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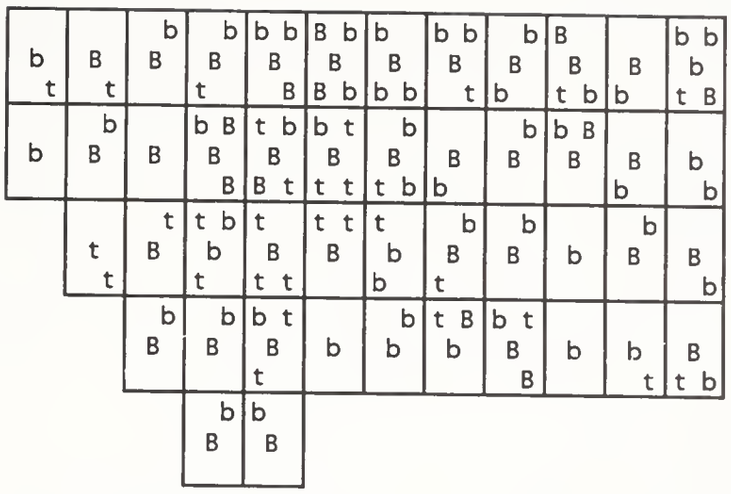
 -----------
  ----------
   --
```

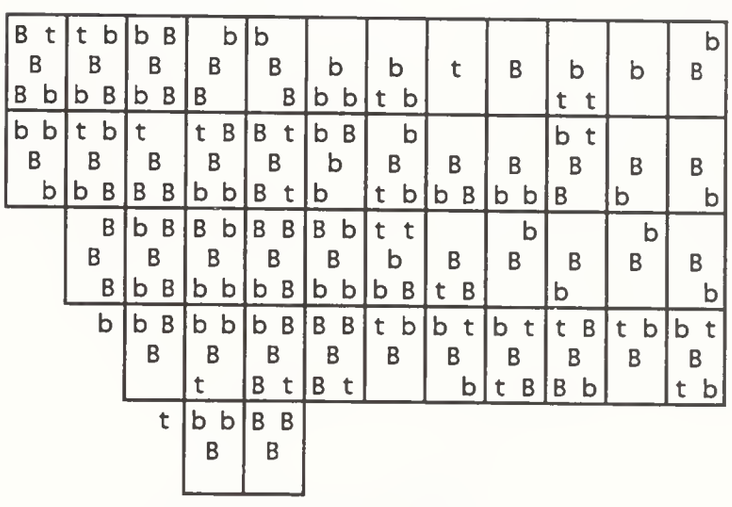


Red-tailed Hawk

Buteo jamaicensis

1991-95 = 285

```
WW-------W--
WWWWW-W----W
 W--W--WW-WW
  WWWWWWWW--
   -W
```



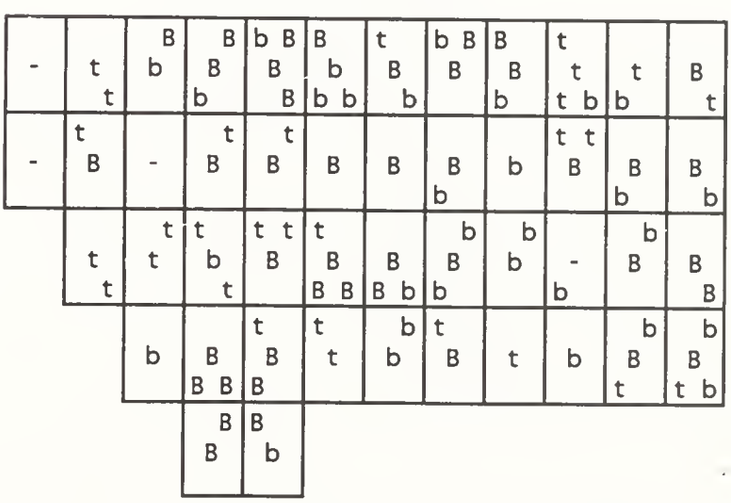
Ferruginous Hawk

Buteo regalis

1991-95 = 99

TES

```
-----------
-----------
 W--------WW
  -W---W----
   --
```

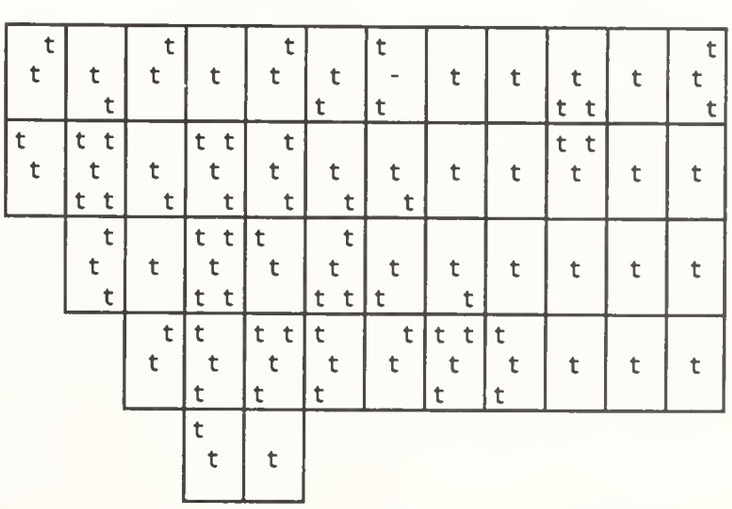


Rough-legged Hawk

Buteo lagopus

1991-95 = 121

```
WWWWWW-WWWWW
WWWWWWWWWWWW
 WWWWWWWWWWW
  WWWWWWWWWW
   WW
```

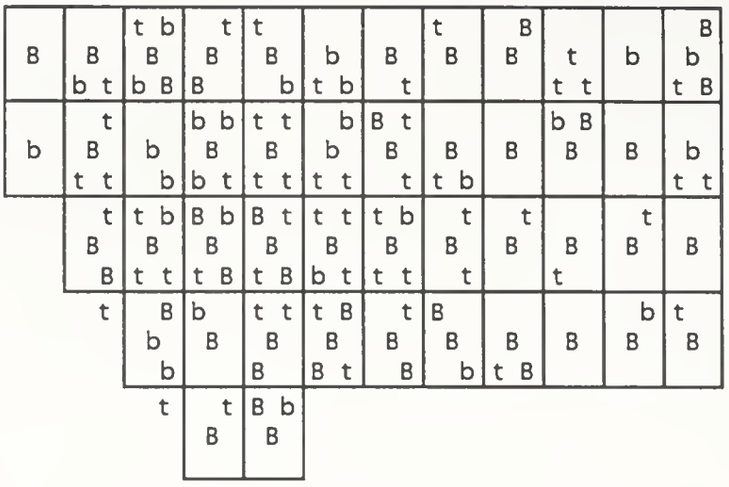


Golden Eagle

Aquila chrysaetos

1991-95 = 182

```
WWWWWWWWWWW
WWWWWWWWWWW
 WWWWWWWWWW
  WWWWWWWWW
   WW
```



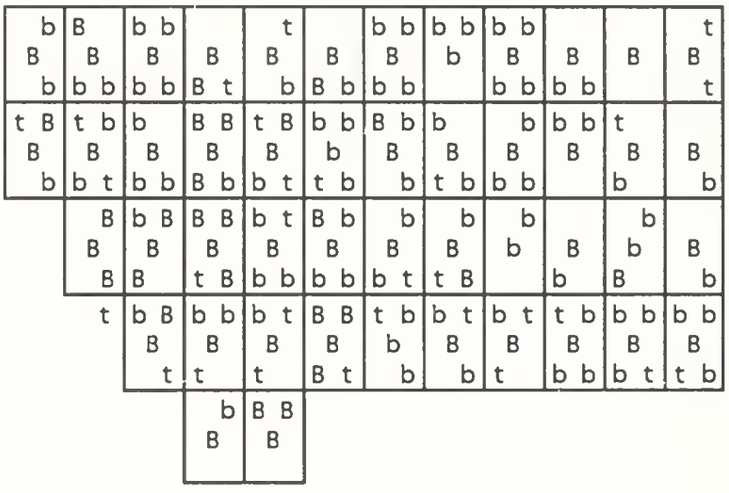
■ Falconidae

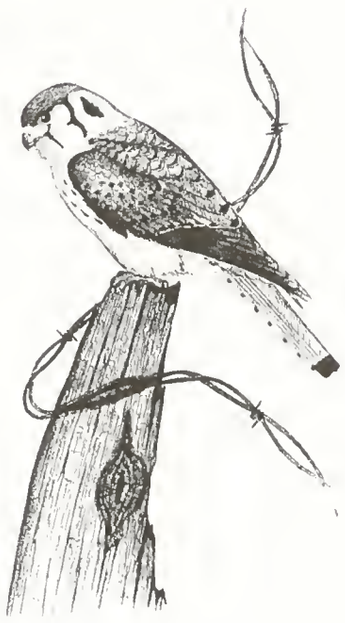
American Kestrel

Falco sparverius

1991-95 = 268

```
WW-------W--
WW-WWW------
 W-WWW-WWWW-
  -WWW-W-W-W
   --
```



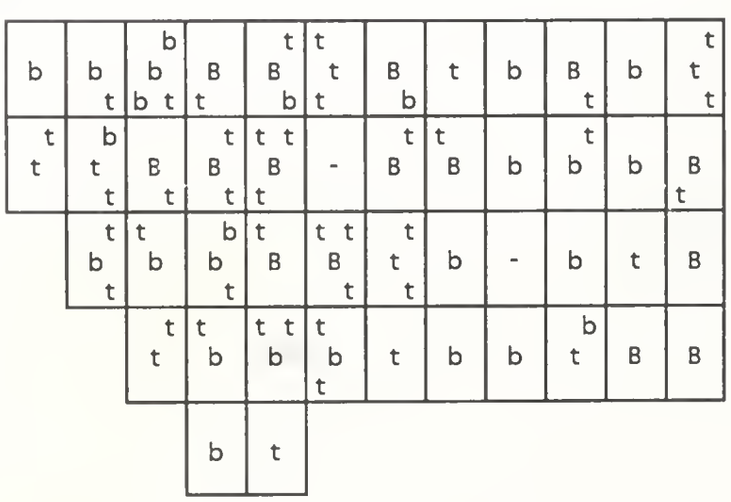


Merlin

Falco columbarius

1991-95 = 74

```
WWW-WWW-WWW-
WW-WW-WW---W
 WW-W----WWW
  -WW--W-W-W
   --
```



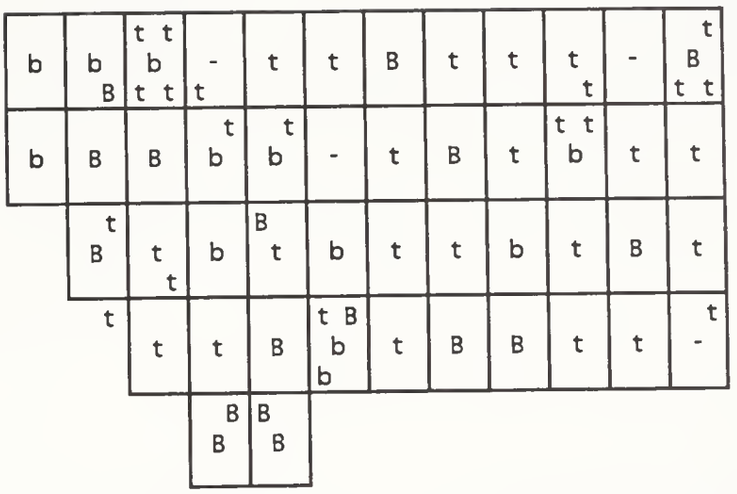
Peregrine Falcon

Falco peregrinus

1991-95 = 40

TES

```
WW--WW-WWW--
-W--W--WW-W-
 W--W-WW-W--
  -WWW-W----
   --
```

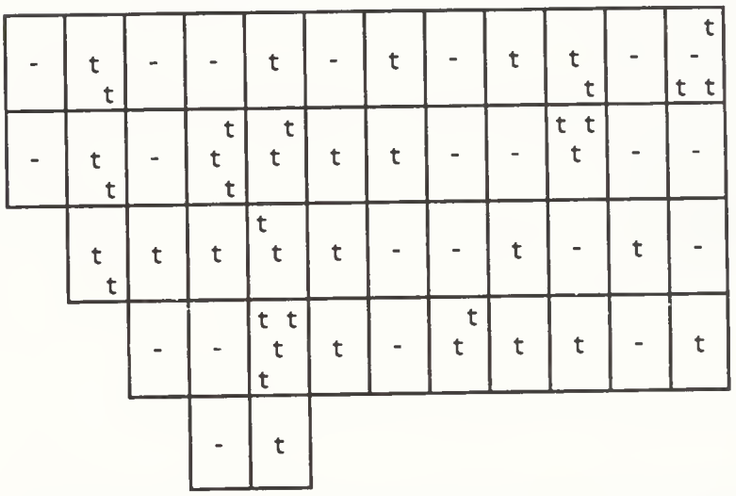


Gyrfalcon

Falco rusticolus

1991-95 = 33

```
-W--W---WW-W
-W-WWWW--W--
 WWWWWW-----
  --W---WW--
   --
```

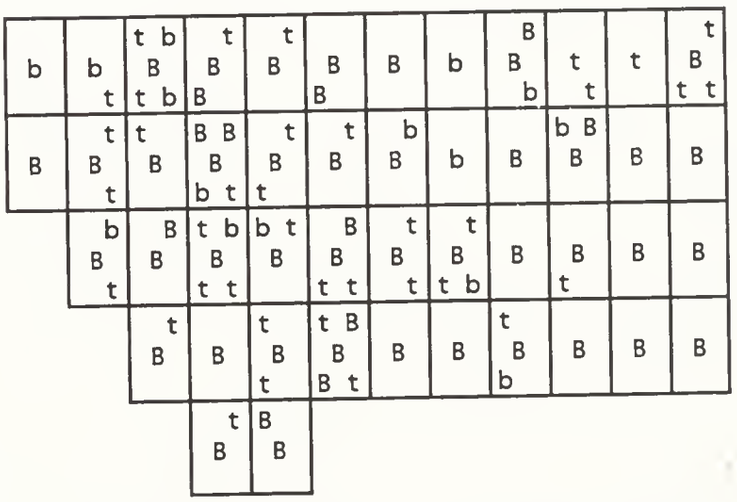


Prairie Falcon

Falco mexicanus

1991-95 = 97

```
WW-WWW--WW-W
WW-WW-WWWWWW
 WWWWW-WWWWW
  -WWWWWWWWW
   W-
```



■ GALLIFORMES ■ Phasianidae

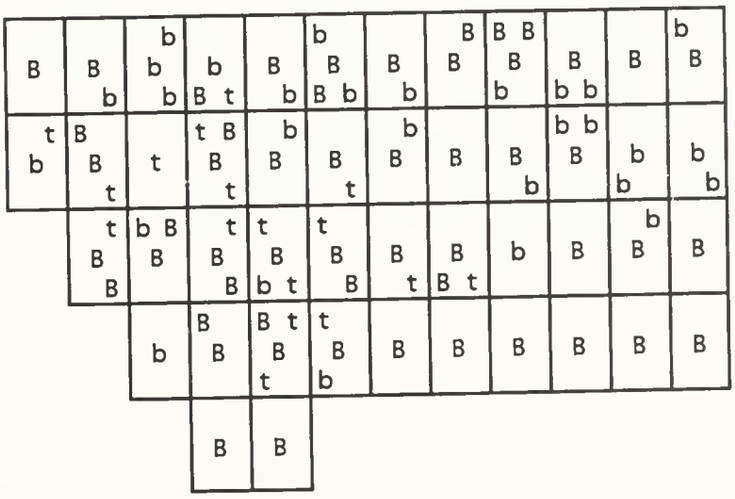
Gray Partridge

Perdix perdix

1991-95 = 92

(introduced)

```
WWWWWWWWWWW
WW-WWWWWWWW
 WWWWWWWWWW
  WWWWWWWW-
   -W
```



Chukar

Alectoris chukar

1991-95 = 7

(introduced)

```
-W----------
-W----------
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  ---W-W----
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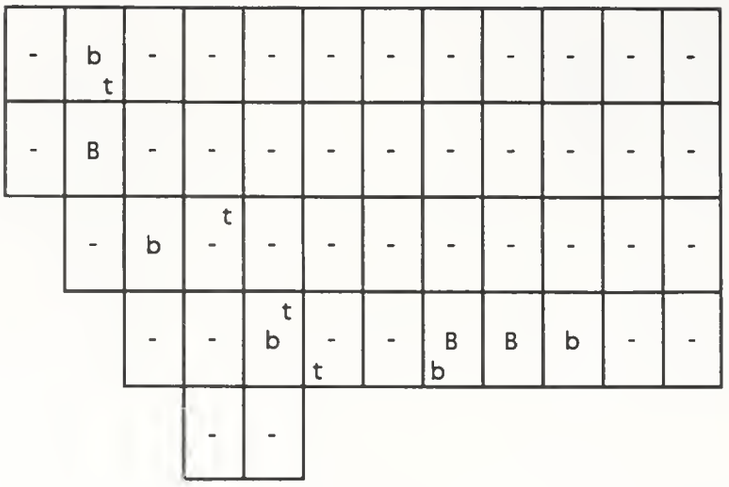
```



Ring-necked Pheasant

Phasianus colchicus

1991-95 = 155

(introduced)

```
WW-WWWWWWWW
-W-WWWWWWWW
 WWWWWWWWWW
  -WWWWWWW-
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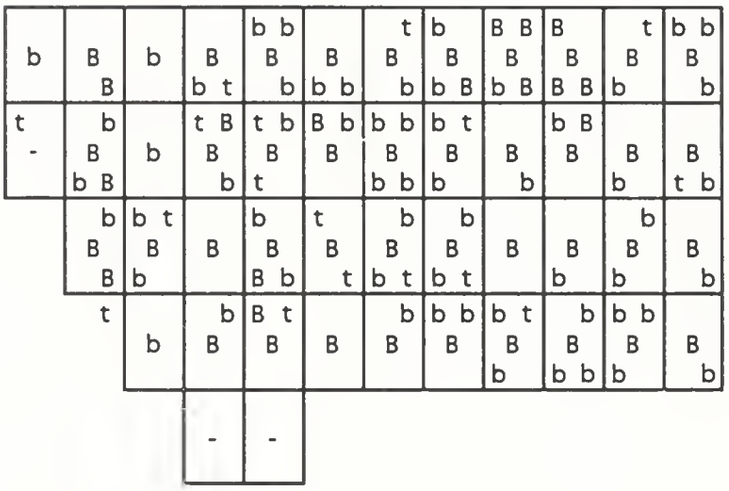

Spruce Grouse

Dendragapus canadensis

1991-95 = 31

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WWWW--------
WWWW--------
 WW---------
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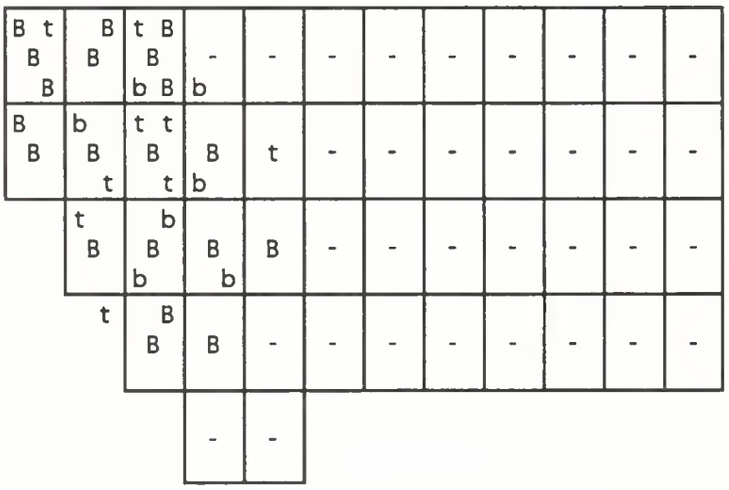
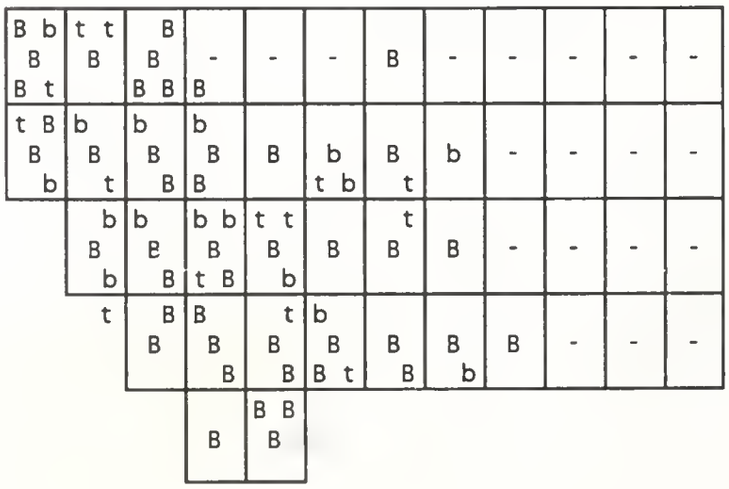


Blue Grouse

Dendragapus obscurus

1991-95 = 64

```
WWWW--W-----
WWWW-WWW----
 WW-WWWW----
  --WW------
   -W
```



Willow Ptarmigan

Lagopus lagopus

1991-95 = 0; 1914 - LL 3

n = 1

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--w---------
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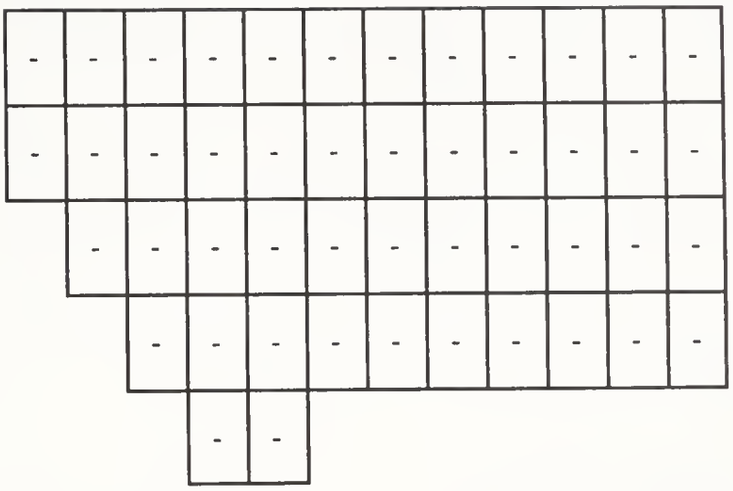

White-tailed Ptarmigan

Lagopus leucurus

1991-95 = 6

SI

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-W----------
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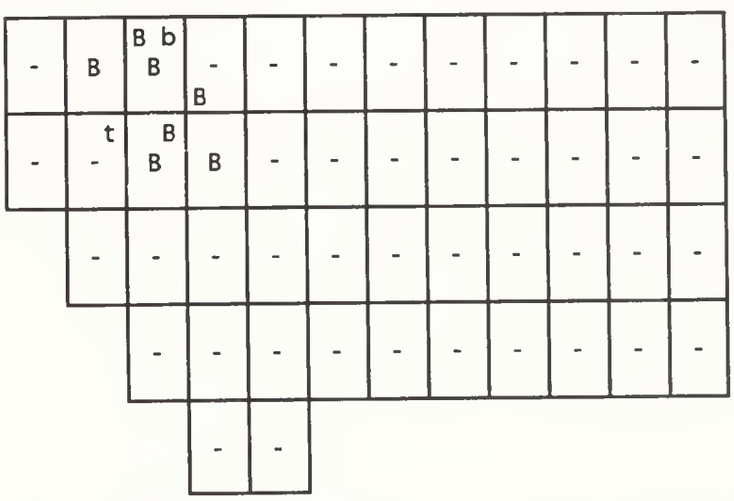
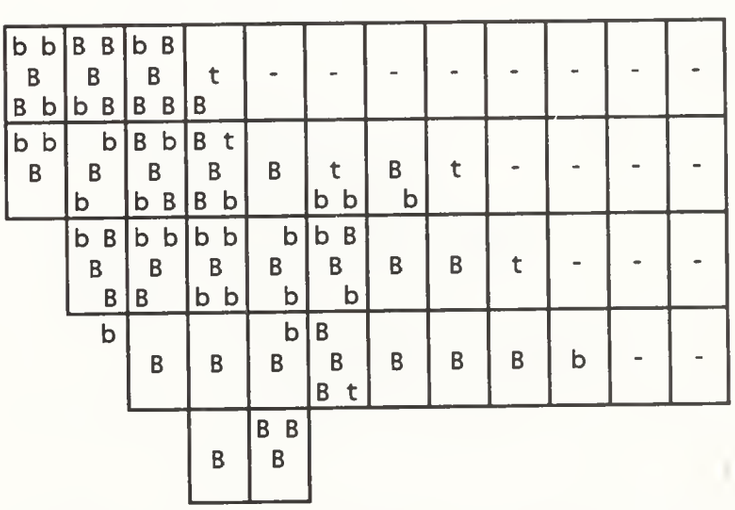


Ruffed Grouse

Bonasa umbellus

1991-95 = 113

```
WWWW--------
WWWW-WWWW---
 WWWWWWW----
  -WWWW-----
   -W
```

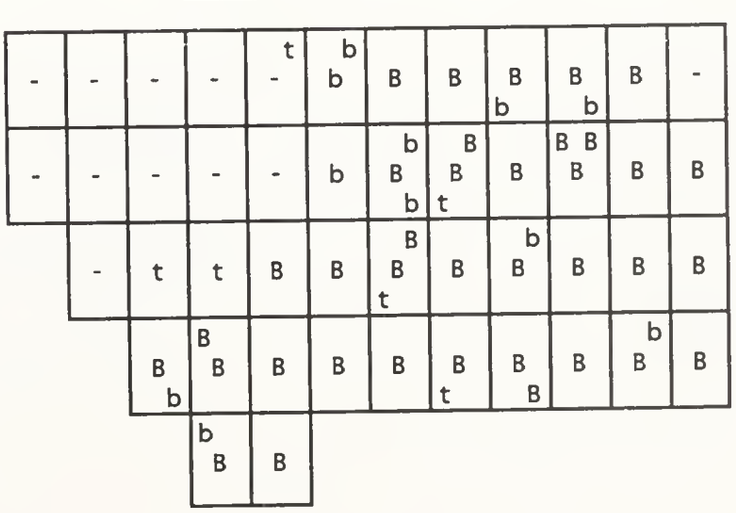


Sage Grouse

Centrocercus urophasianus

1991-95 = 19

```
-----WWWWW--
------WWWW--
 ---WWWWWWWW
  ---W-WWWWW
   -w
```



Greater Prairie-Chicken

Tympanuchus cupido

1991-95 = 0; 1937 - LL 12

n = 1

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  ----------
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-	-	-	-	-	-	-	-	-	-	-	b
-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-
			-	-							

Sharp-tailed Grouse

Tympanuchus phasianellus

1991-95 = 62

```
WWWWWWWWWWW
-W-WWWWWWWWW
 W--WWWWWWWW
  --WWWWWWWW
   --
```

B	B b	B b B	B B	b b B B	B b b	B b	B	B B B B	B t b	B	b B
-	b	B	b b B b t	t B	B	b B B	B B	B	B B B	B	B t b
	b	B b	B t b	B	B b	B t	B t b	B	B	b B	B
		-	b	B	B	B	b B	B B	B	t b B	B b
			-	b							

Wild Turkey

Meleagris gallopavo

1991-95 = 59

(introduced)

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WW----------
W-W--WWWW--W
 W-WWWWWWWWW
  --WW-WWWWW
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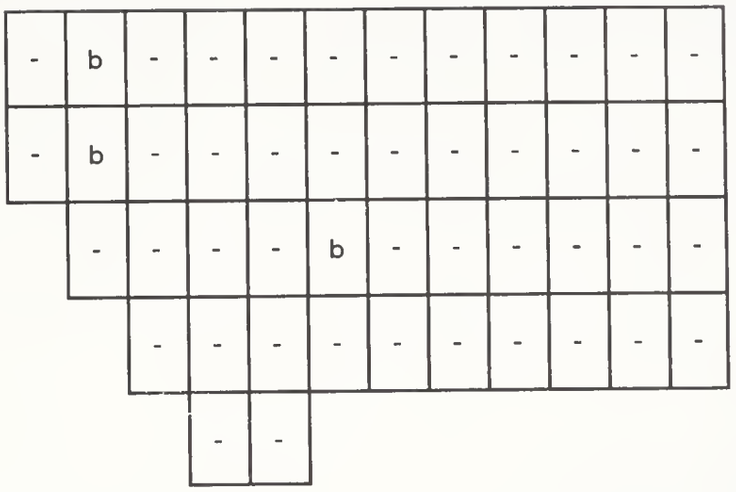
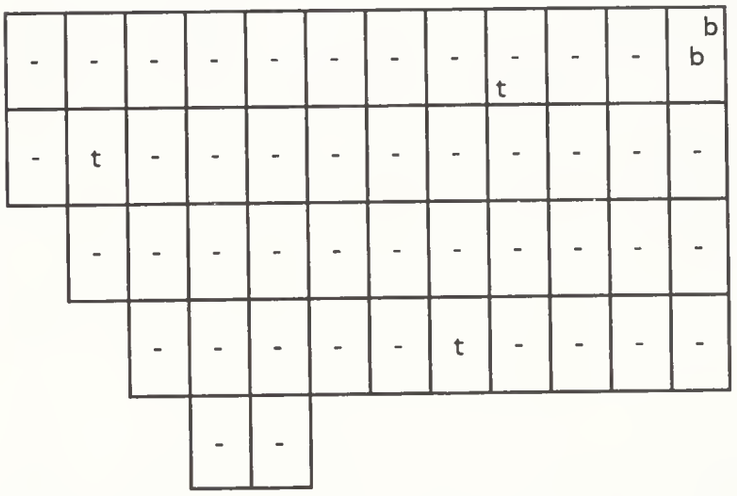
t B B	B B	b B	-	-	B	B b	- B	t t - t	-	-	-
t B B b	b	B t	b	b	t	B B	B	B	B	- b	b t
	b B B	B t b	b t t	B	B B	B t	B B	B	B	b B	B
		B	b	-	t B	t b b	B	B	b B b	b B	B B
			-	-							

Northern Bobwhite
Colinus virginianus
1991-95 = 0; 1982 - LL 2
n = 9
(introduced)

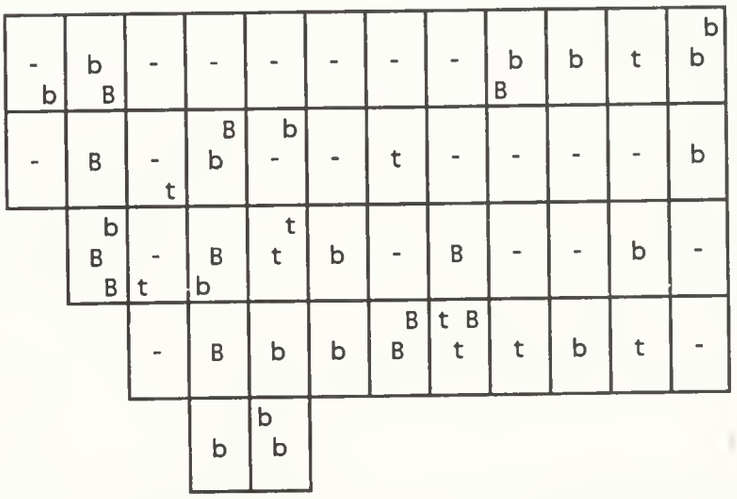


■ GRUIFORMES ■ Rallidae

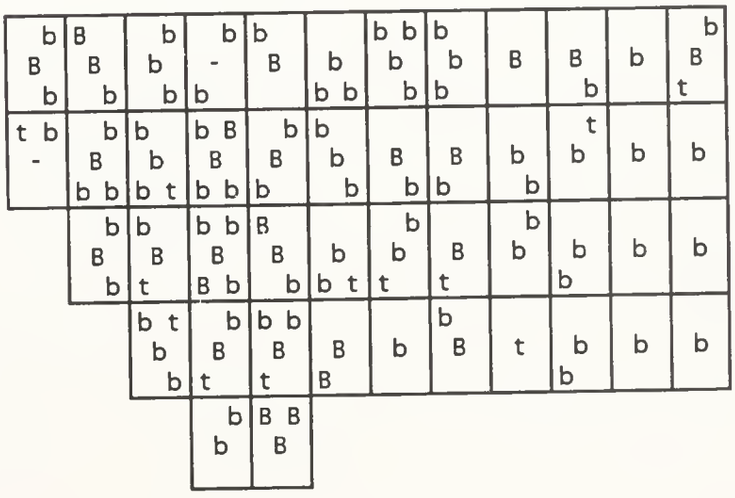
Yellow Rail
Coturnicops noveboracensis
1991-95 = 3; 1995 - QLL 9C
n = 6
TES



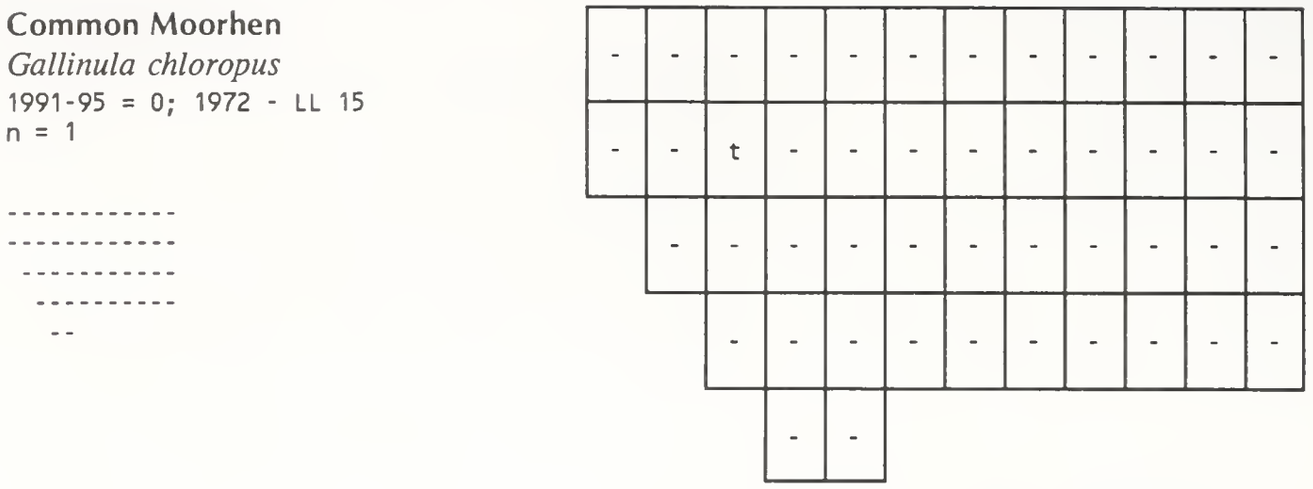
Virginia Rail
Rallus limicola
1991-95 = 30



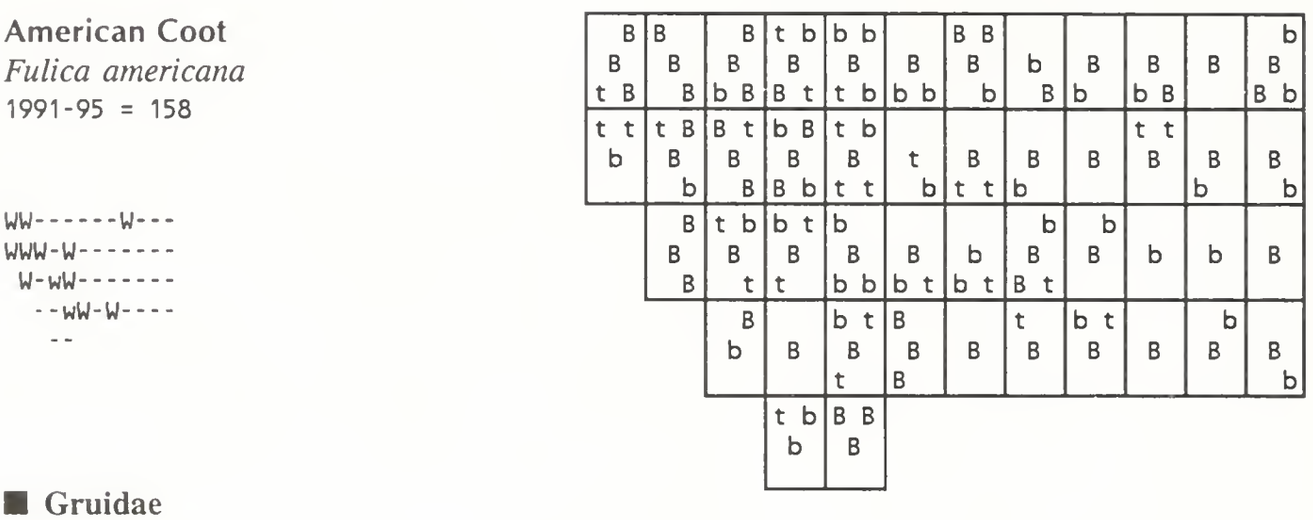
Sora
Porzana carolina
1991-95 = 114



Common Moorhen
Gallinula chloropus
1991-95 = 0; 1972 - LL 15
n = 1

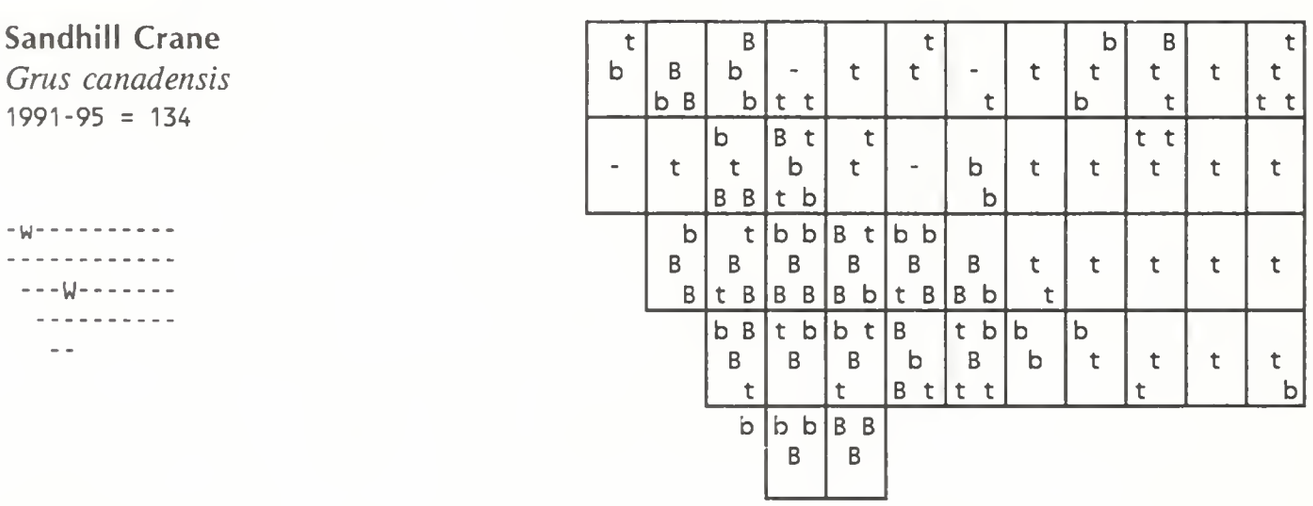


American Coot
Fulica americana
1991-95 = 158

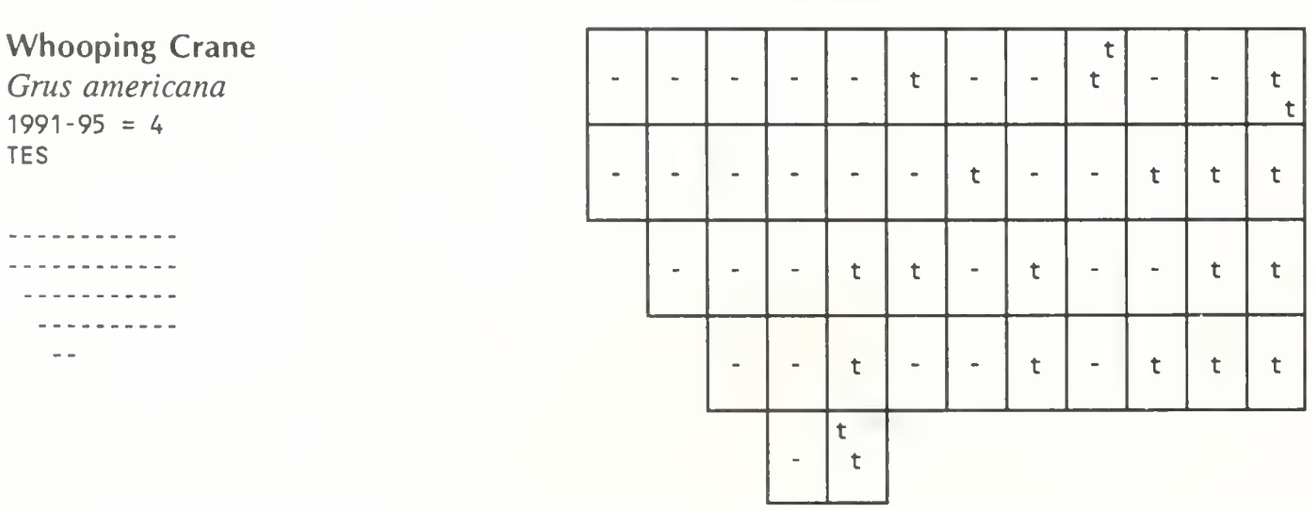


■ Gruidae

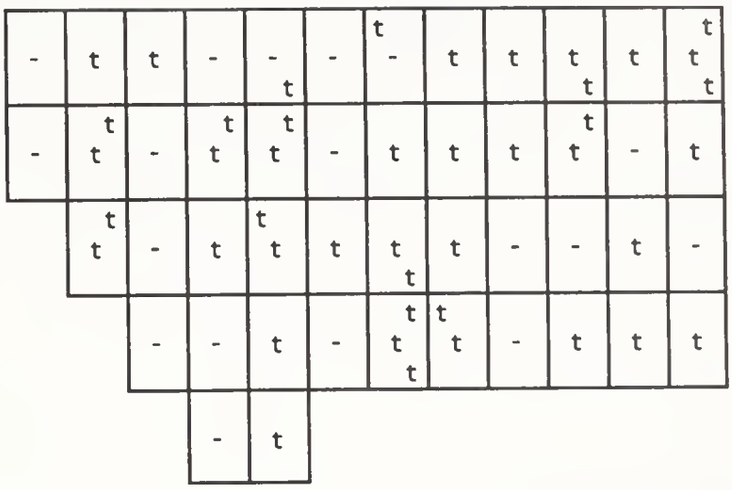
Sandhill Crane
Grus canadensis
1991-95 = 134



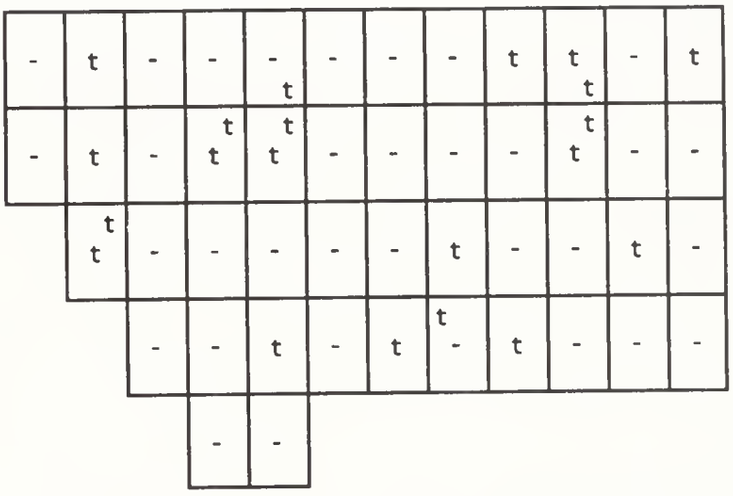
Whooping Crane
Grus americana
1991-95 = 4
TES



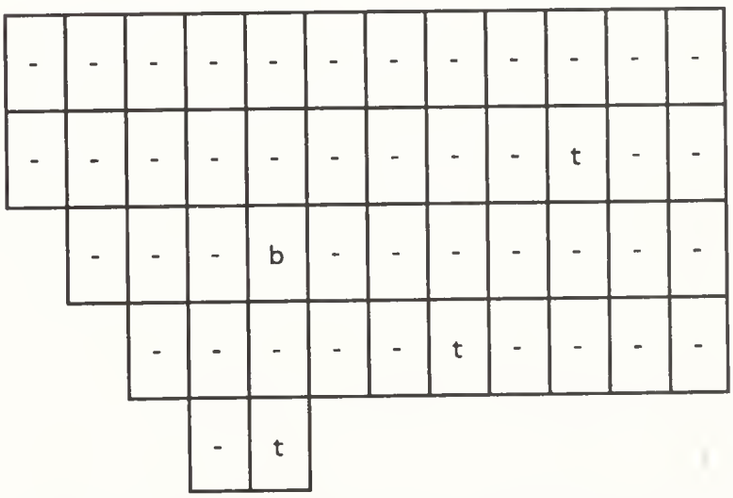
Black-bellied Plover
Pluvialis squatarola
1991-95 = 22



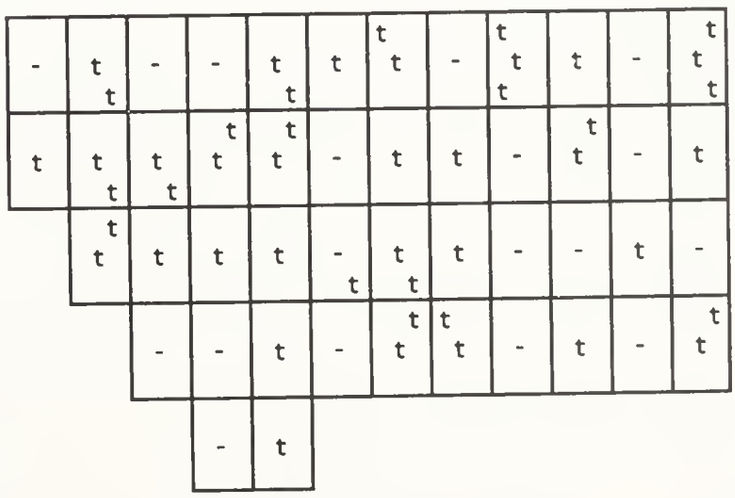
American Golden-Plover
Pluvialis dominicus
1991-95 = 10
(formerly Lesser Golden-Plover)



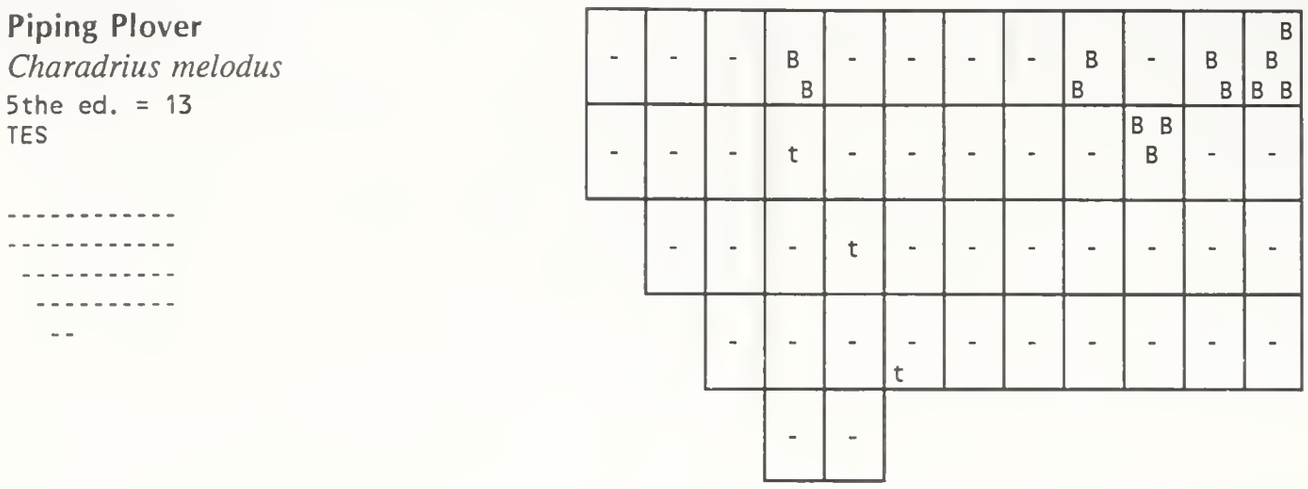
Snowy Plover
Charadrius alexandrinus
1991-95 = 0; 1982 - LL 41
n = 4



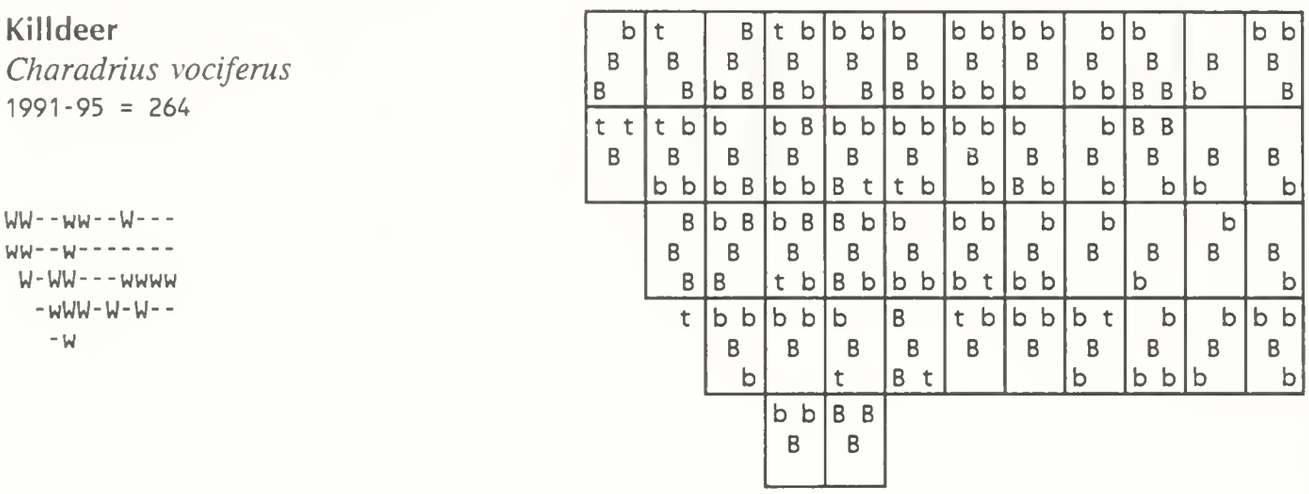
Semipalmated Plover
Charadrius semipalmatus
1991-95 = 25



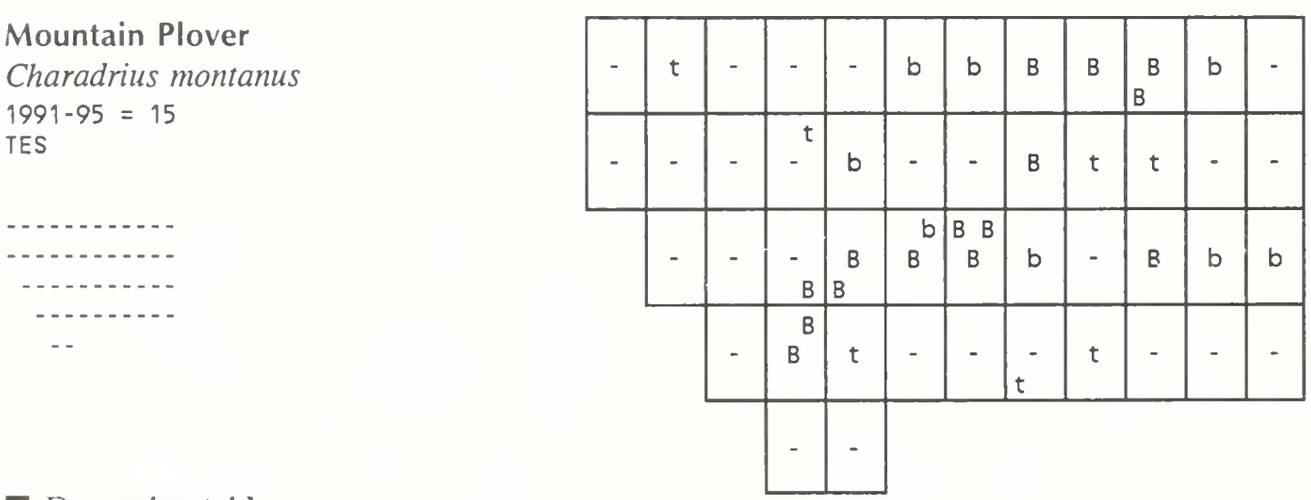
Piping Plover
Charadrius melodus
5the ed. = 13
TES



Killdeer
Charadrius vociferus
1991-95 = 264

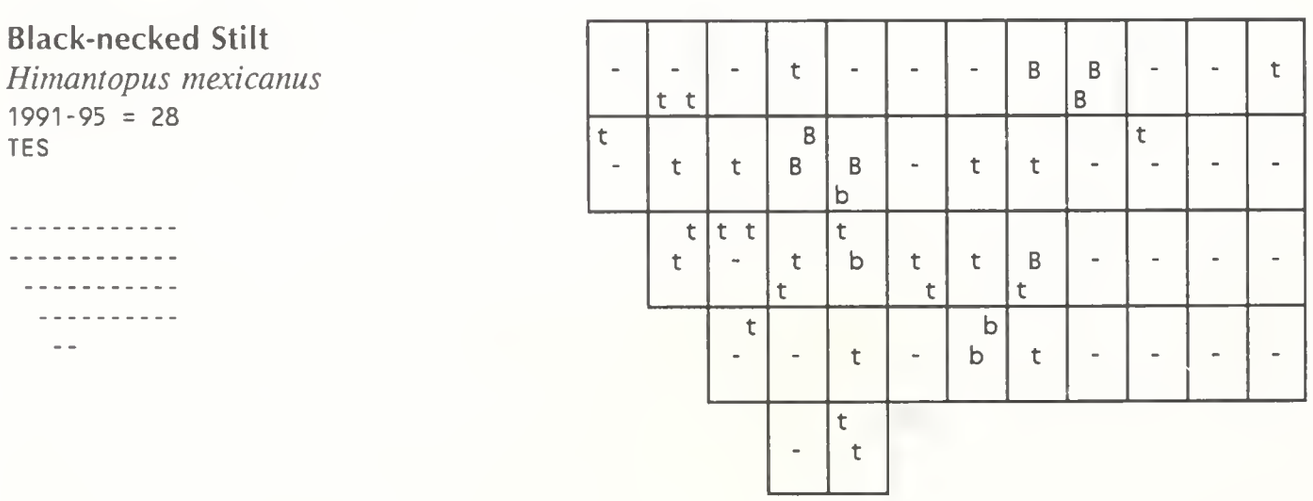


Mountain Plover
Charadrius montanus
1991-95 = 15
TES

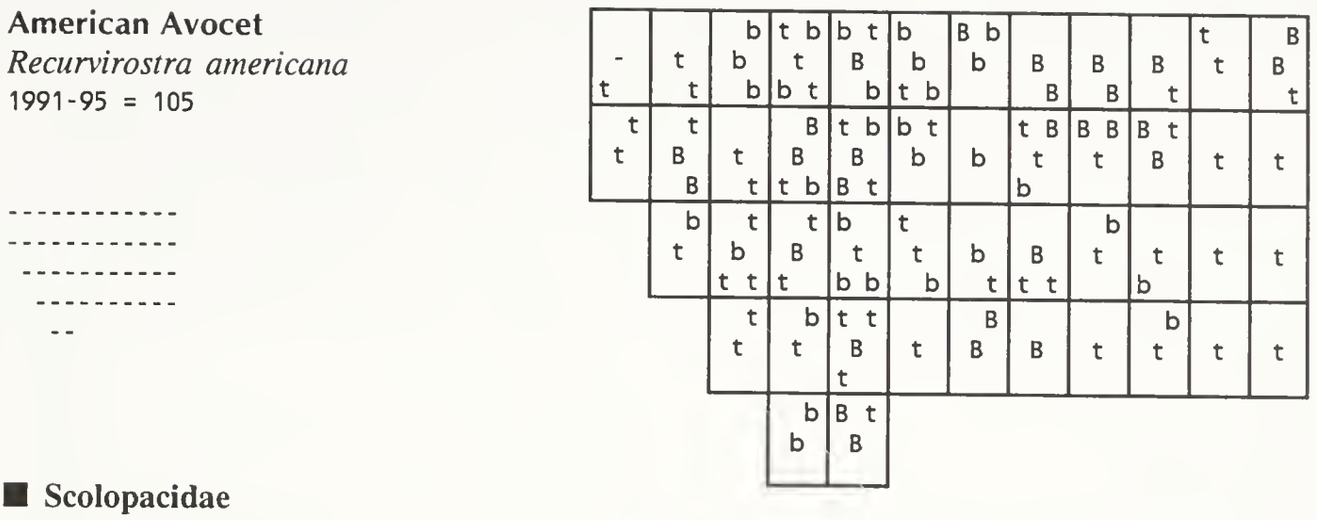


■ Recurvirostridae

Black-necked Stilt
Himantopus mexicanus
1991-95 = 28
TES

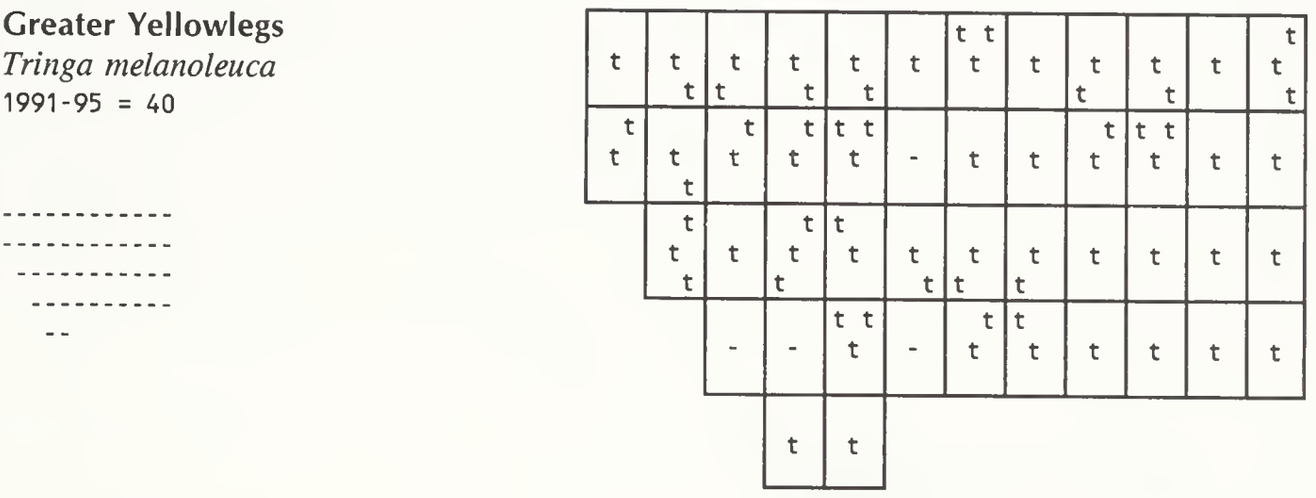


American Avocet
Recurvirostra americana
1991-95 = 105

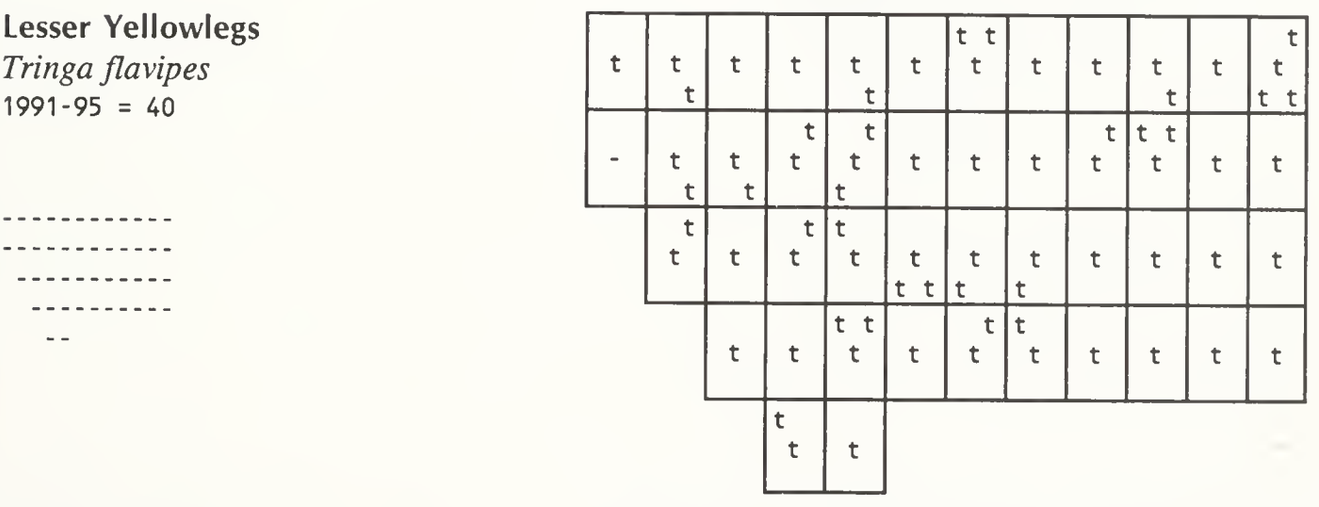


■ **Scolopacidae**

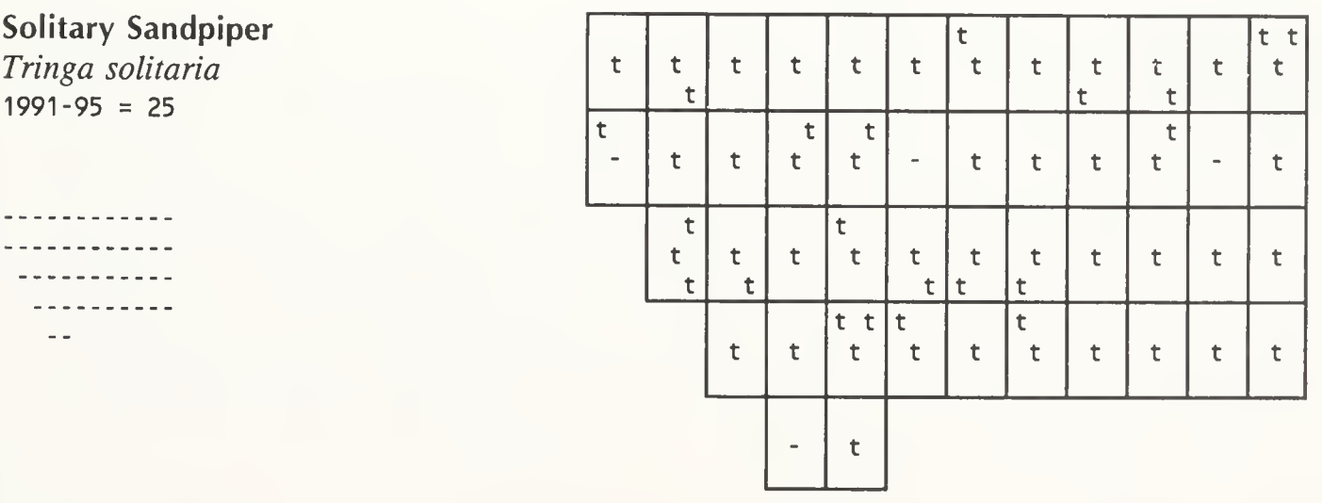
Greater Yellowlegs
Tringa melanoleuca
1991-95 = 40



Lesser Yellowlegs
Tringa flavipes
1991-95 = 40



Solitary Sandpiper
Tringa solitaria
1991-95 = 25



Willet

Catoptrophorus semipalmatus

1991-95 = 83

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Spotted Sandpiper

Actitis macularia

1991-95 = 179

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ww---------

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Upland Sandpiper

Bartramia longicauda

1991-95 = 72

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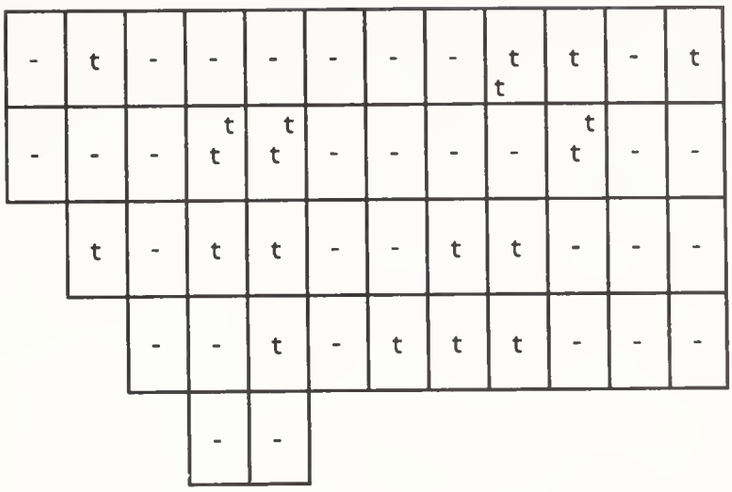
Whimbrel

Numenius phaeopus

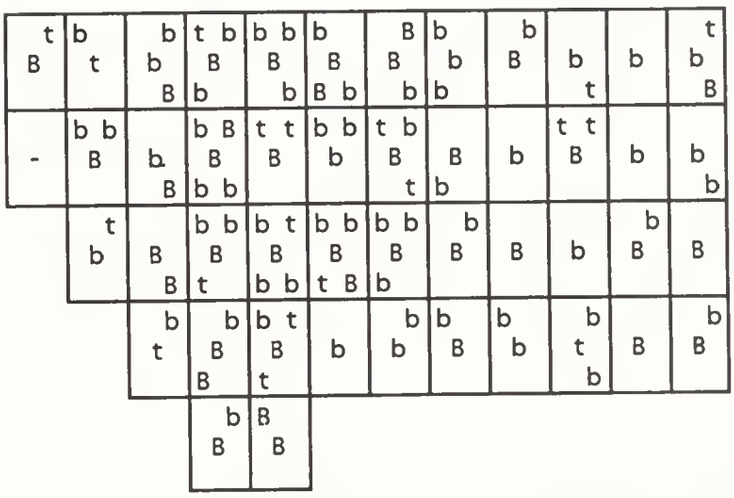
1991-95 = 5



Long-billed Curlew

Numenius americanus

1991-95 = 104

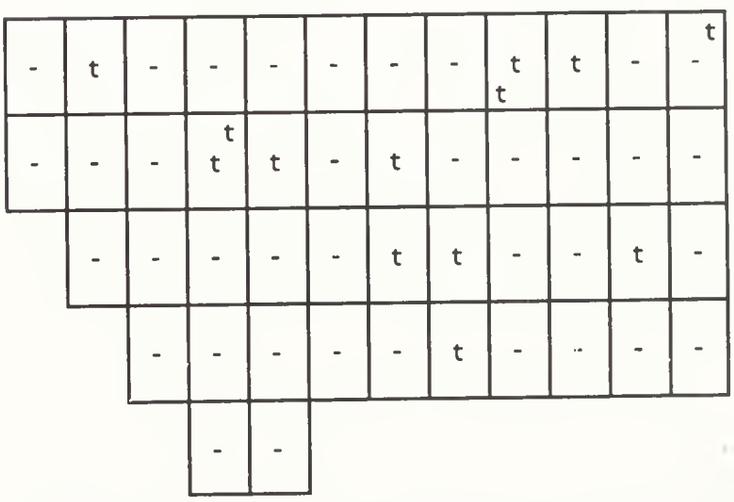


Hudsonian Godwit

Limosa haemastica

1991-95 = 3; 1994 - QLL 12B

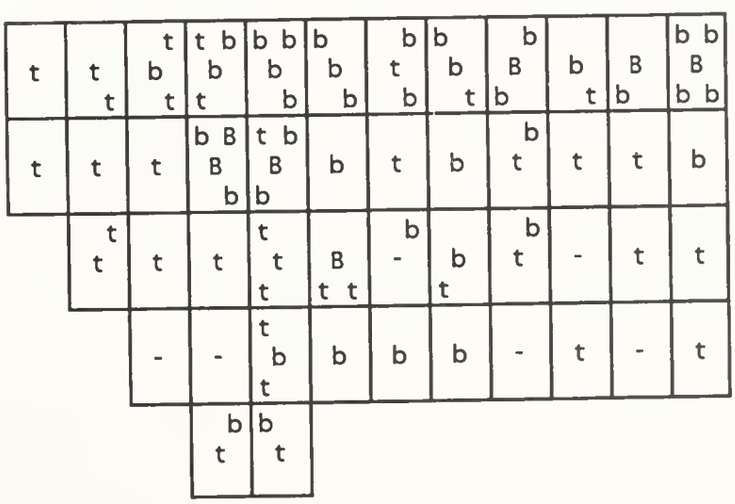
n = 13



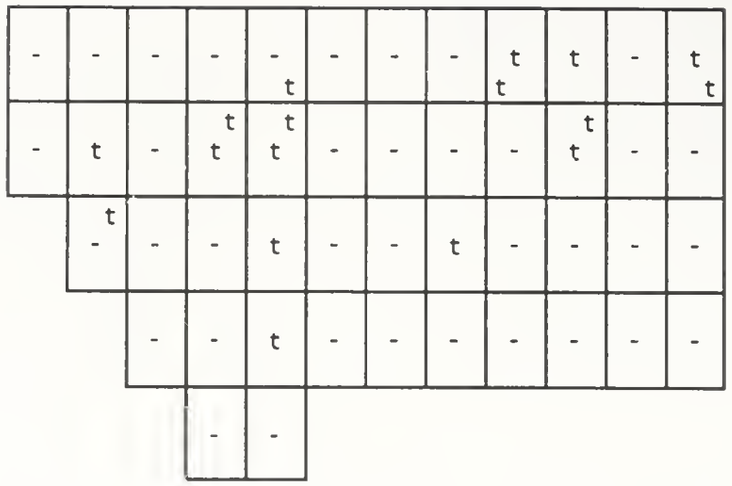
Marbled Godwit

Limosa fedoa

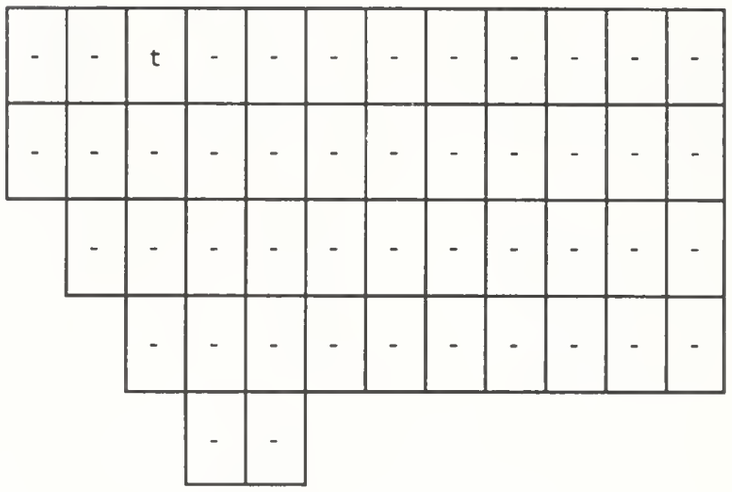
1991-95 = 64



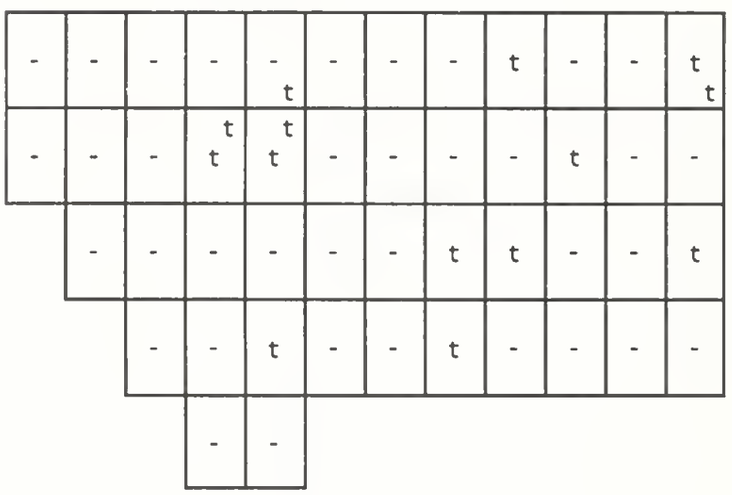
Ruddy Turnstone
Arenaria interpres
1991-95 = 10



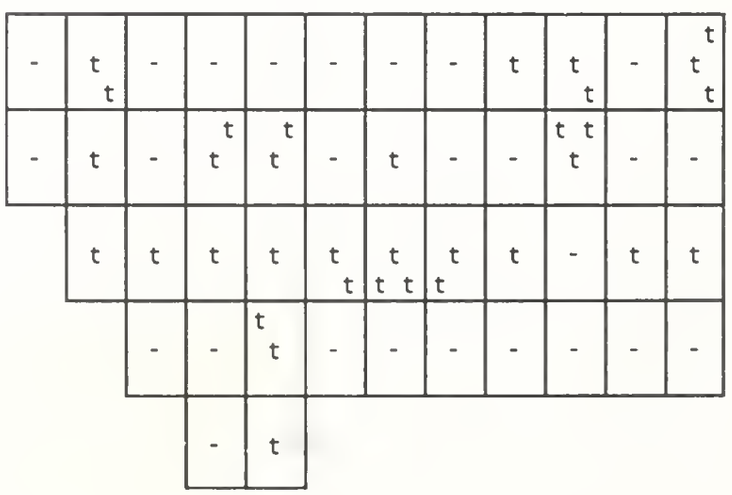
Black Turnstone
Arenaria melanocephala
1991-95 = 0; 1957 - LL 3
n = 1



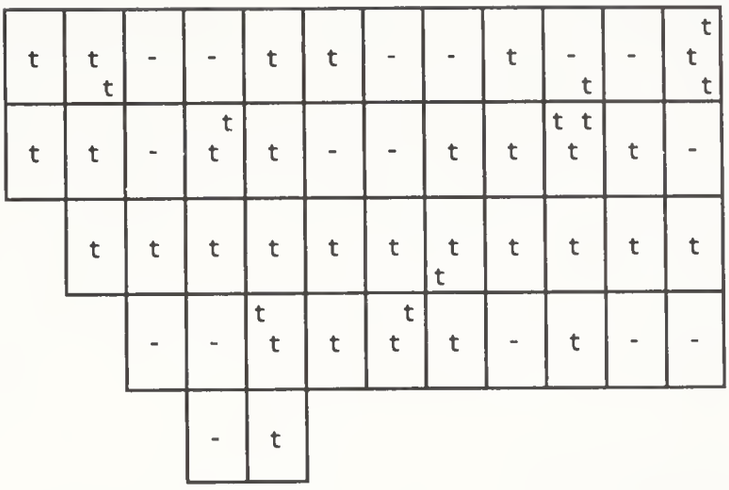
Red Knot
Calidris canutus
1991-95 = 10



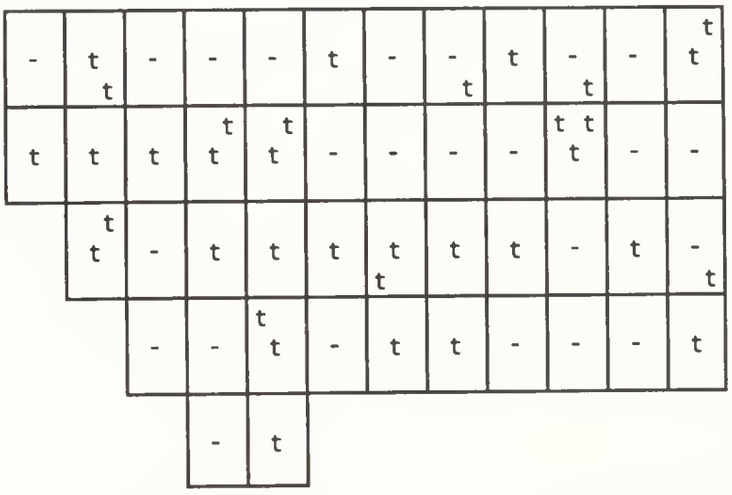
Sanderling
Calidris alba
1991-95 = 16



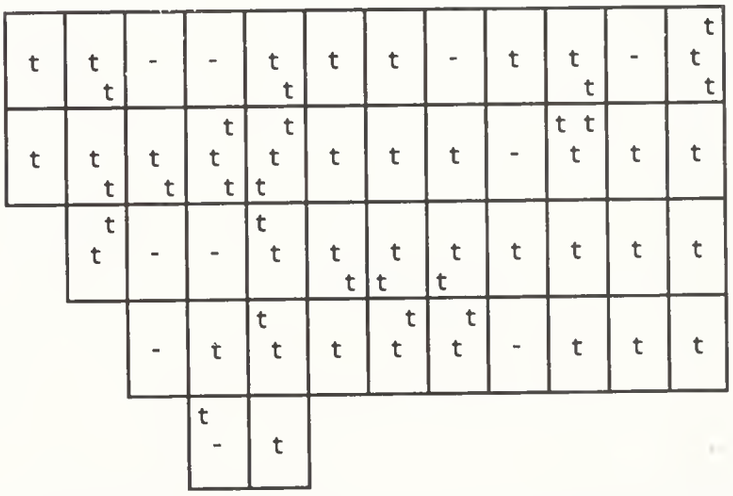
Semipalmated Sandpiper
Calidris pusilla
1991-95 = 14



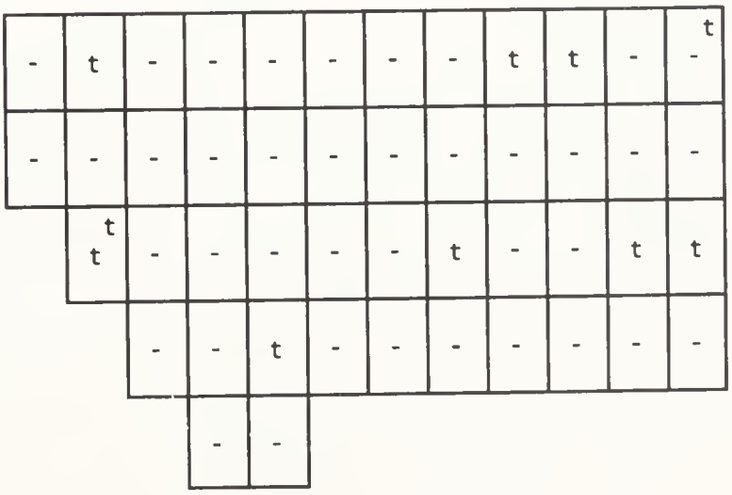
Western Sandpiper
Calidris mauri
1991-95 = 16



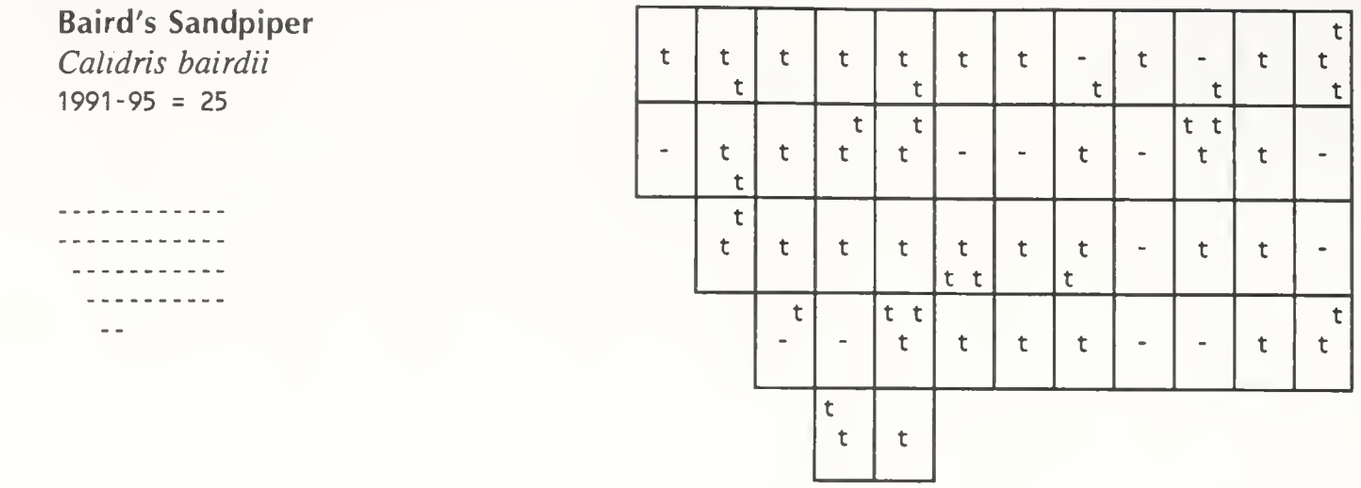
Least Sandpiper
Calidris minutilla
1991-95 = 28



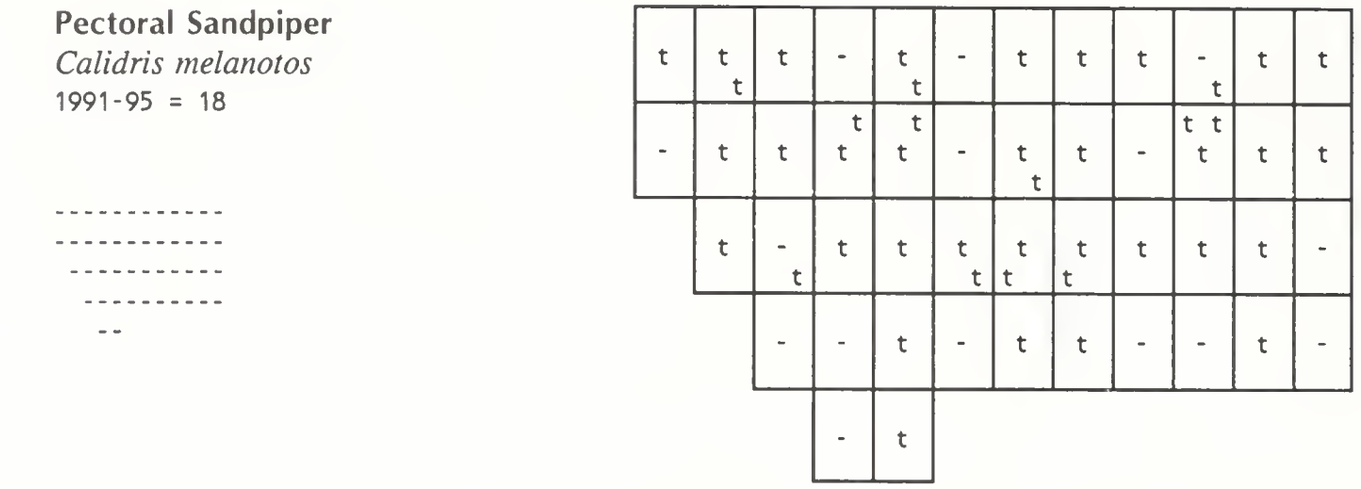
White-rumped Sandpiper
Calidris fuscicollis
1991-95 = 4; 1995 - QLL 12B
n = 16



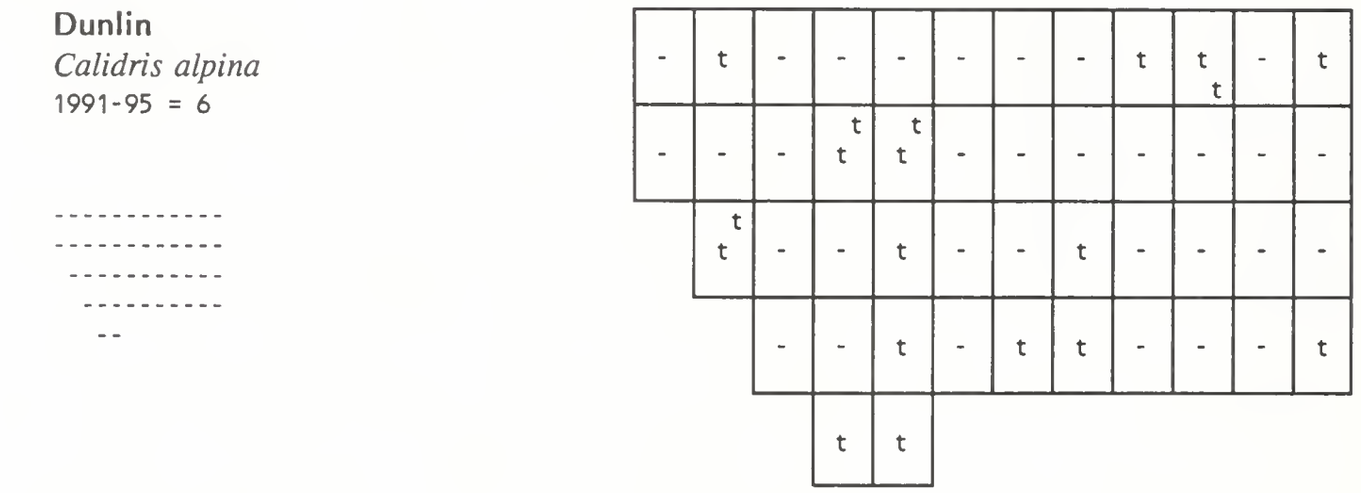
Baird's Sandpiper
Calidris bairdii
1991-95 = 25



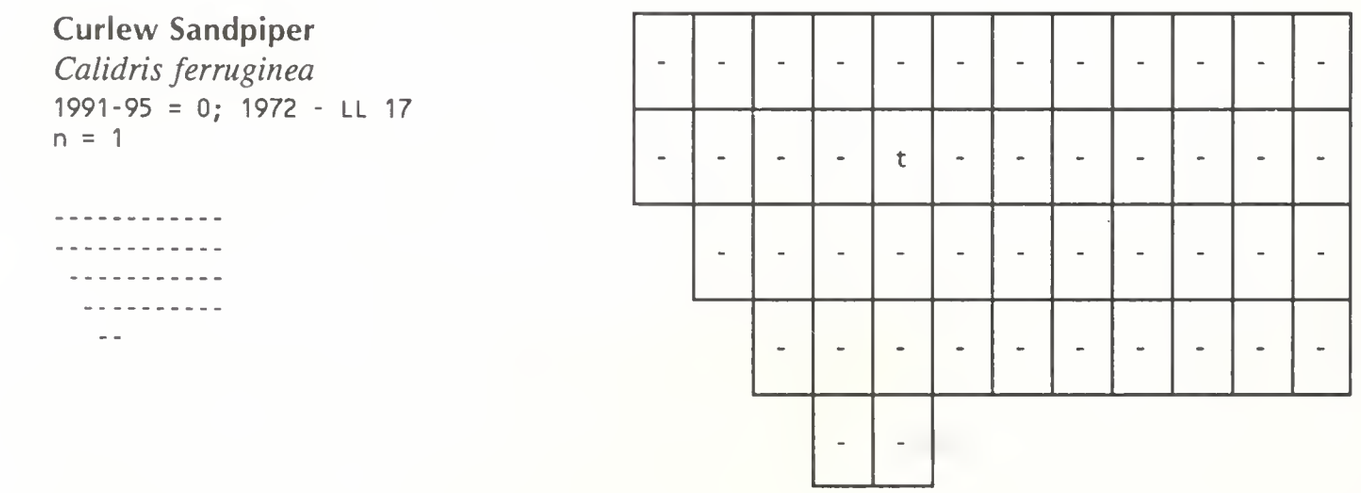
Pectoral Sandpiper
Calidris melanotos
1991-95 = 18



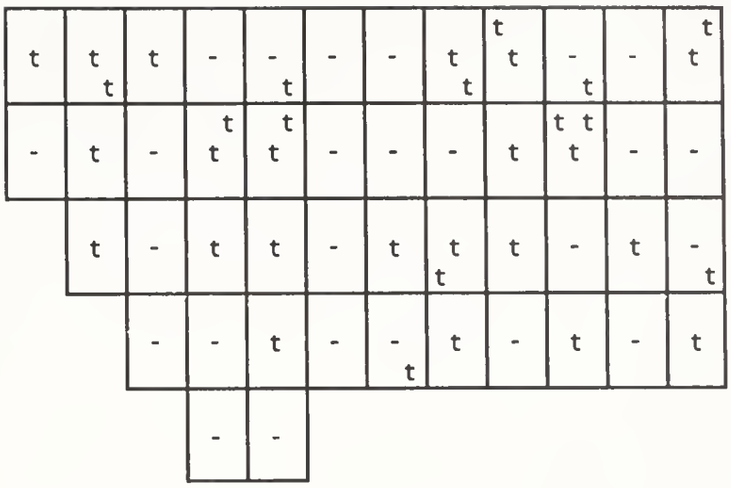
Dunlin
Calidris alpina
1991-95 = 6



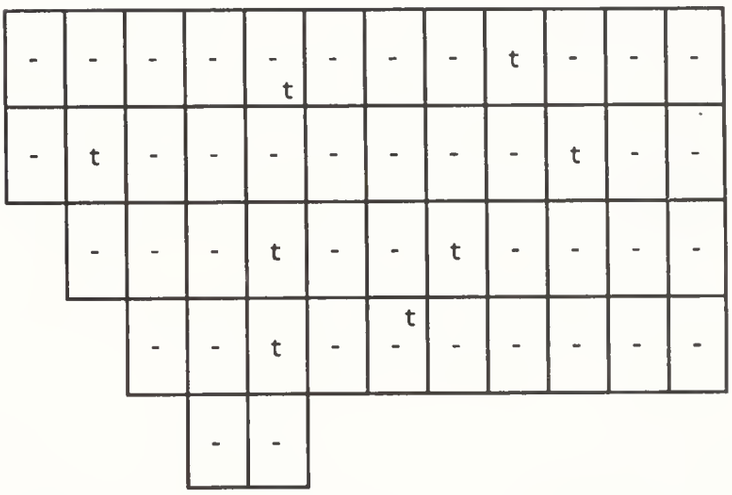
Curlew Sandpiper
Calidris ferruginea
1991-95 = 0; 1972 - LL 17
n = 1



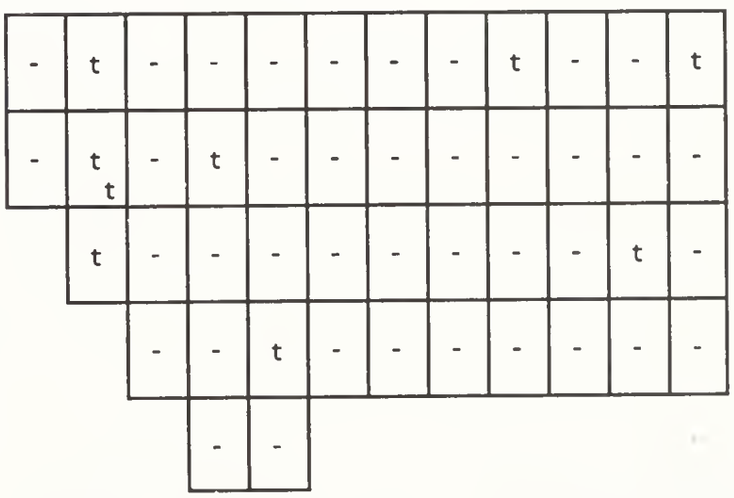
Stilt Sandpiper
Calidris himantopus
1991-95 = 15



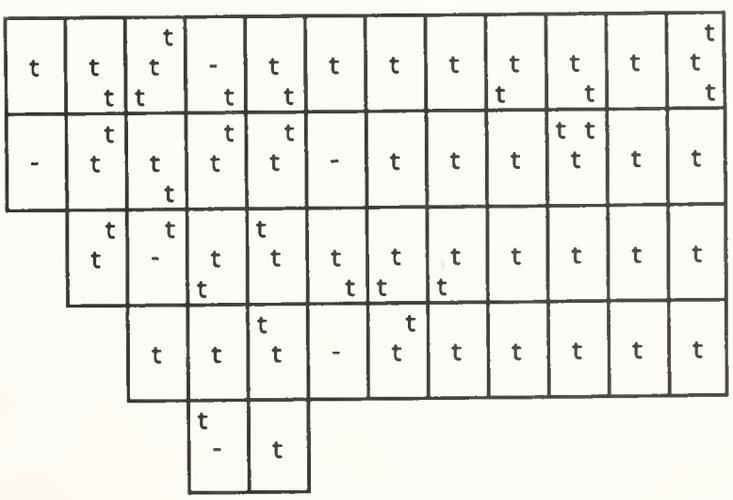
Buff-breasted Sandpiper
Tryngites subruficollis
1991-95 = 2; 1994 - QLL 5D
n = 10



Short-billed Dowitcher
Limnodromus griseus
1991-95 = 1; 1994 - QLL 14D
n = 20



Long-billed Dowitcher
Limnodromus scolopaceus
1991-95 = 34



Common Snipe

Gallinago gallinago

1991-95 = 168

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WW------WW--
WW--W-W----W
 WWWW-----WW
  -WWWWW----
   WW
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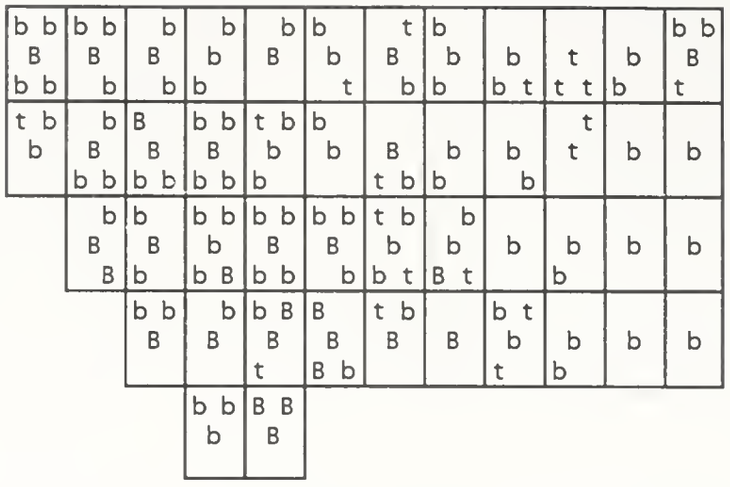

American Woodcock

Scolopax minor

1991-95 = 0; 1983 - LL 14

n = 2

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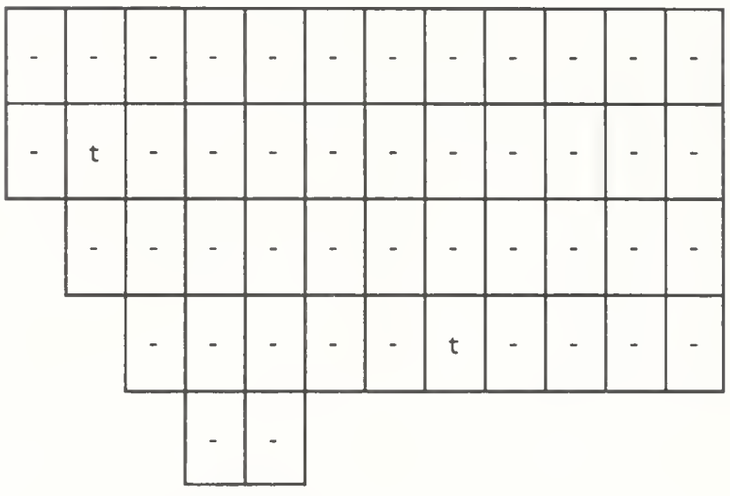

Wilson's Phalarope

Phalaropus tricolor

1991-95 = 114

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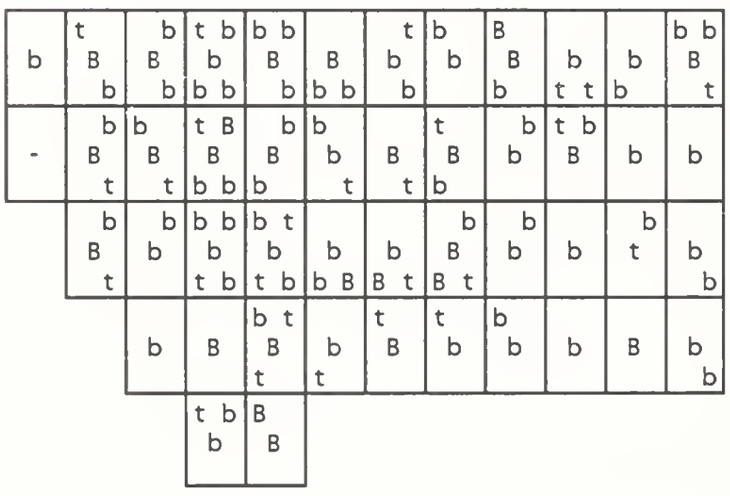

Red-necked Phalarope

Phalaropus lobatus

1991-95 = 21

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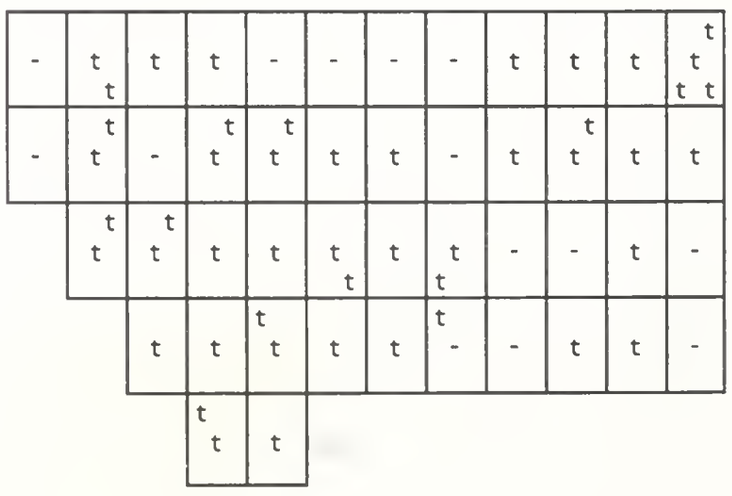
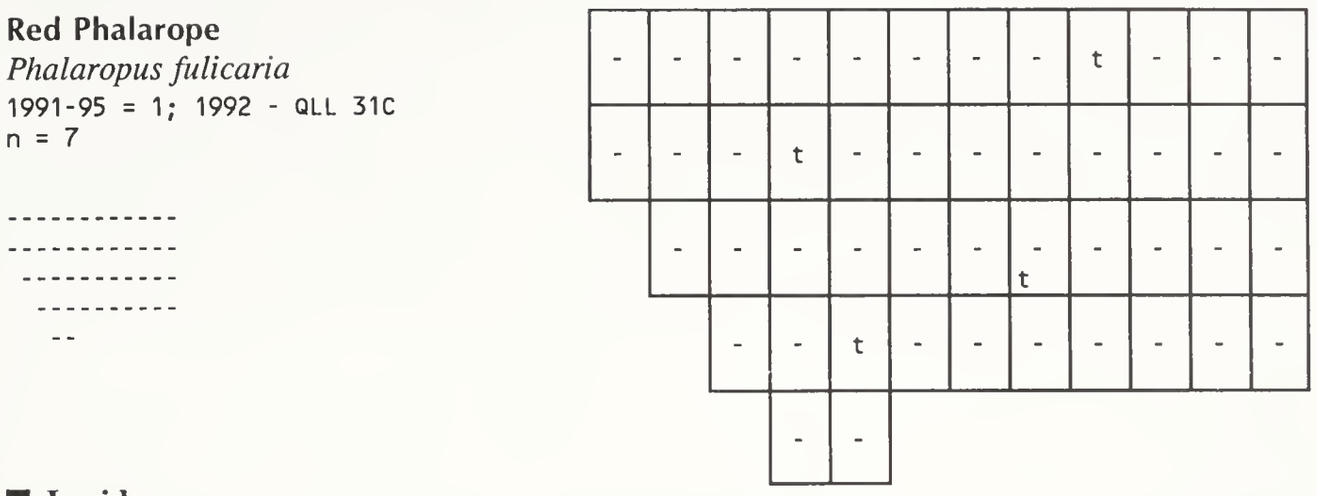
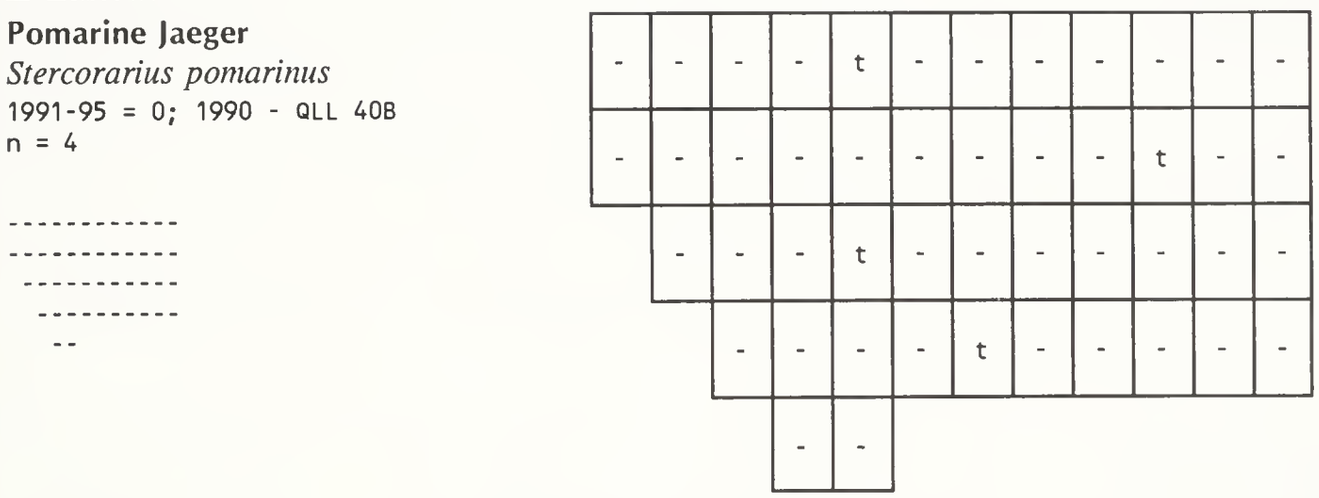


Red Phalarope
Phalaropus fulicaria
1991-95 = 1; 1992 - QLL 31C
n = 7

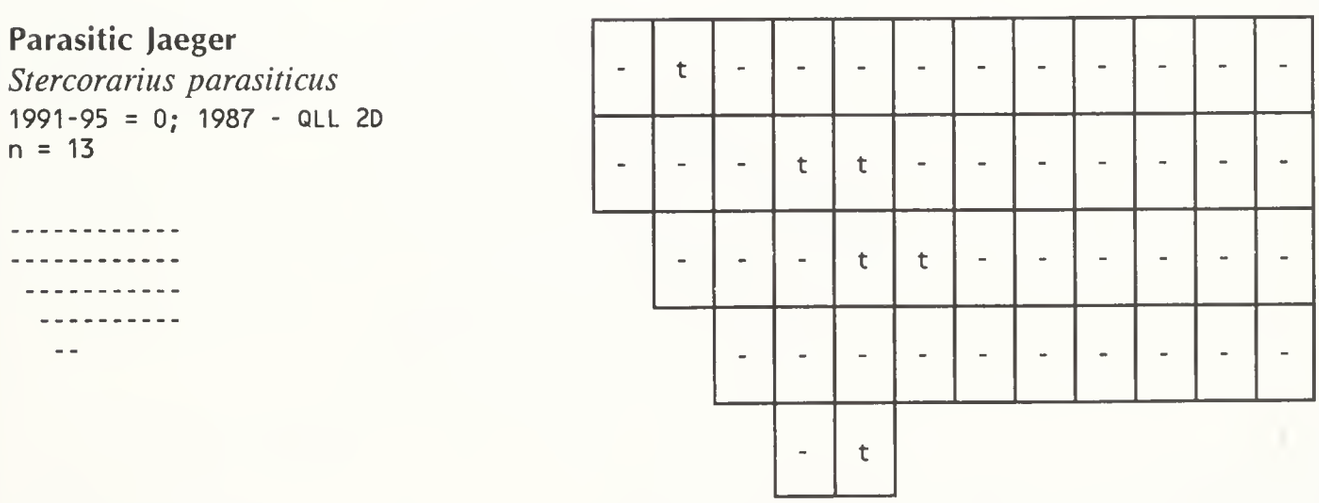


■ Laridae

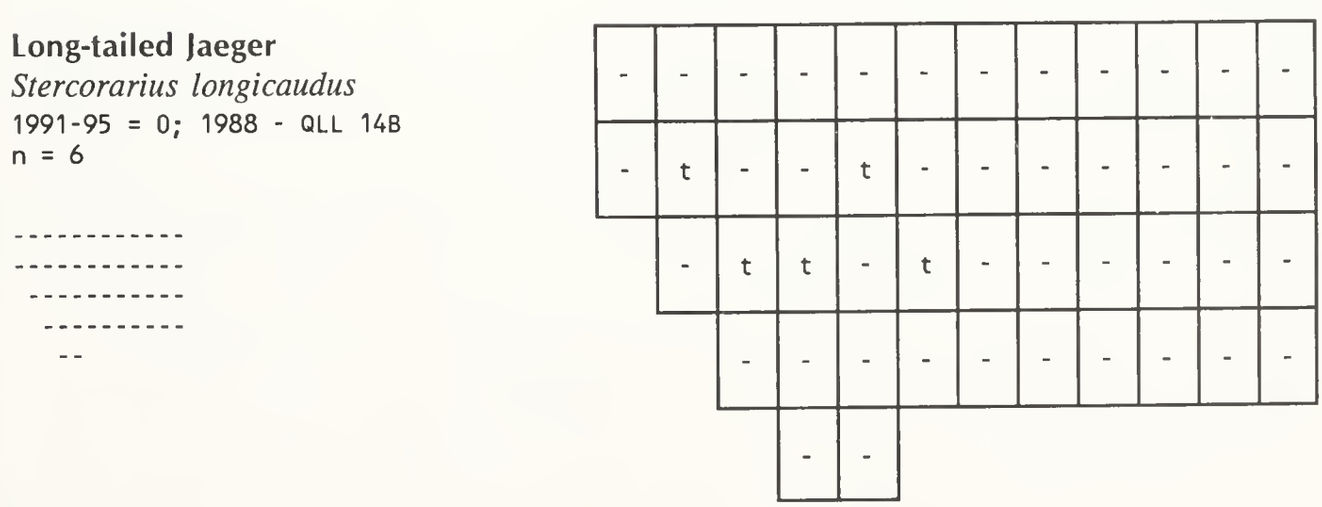
Pomarine Jaeger
Stercorarius pomarinus
1991-95 = 0; 1990 - QLL 40B
n = 4



Parasitic Jaeger
Stercorarius parasiticus
1991-95 = 0; 1987 - QLL 2D
n = 13



Long-tailed Jaeger
Stercorarius longicaudus
1991-95 = 0; 1988 - QLL 14B
n = 6

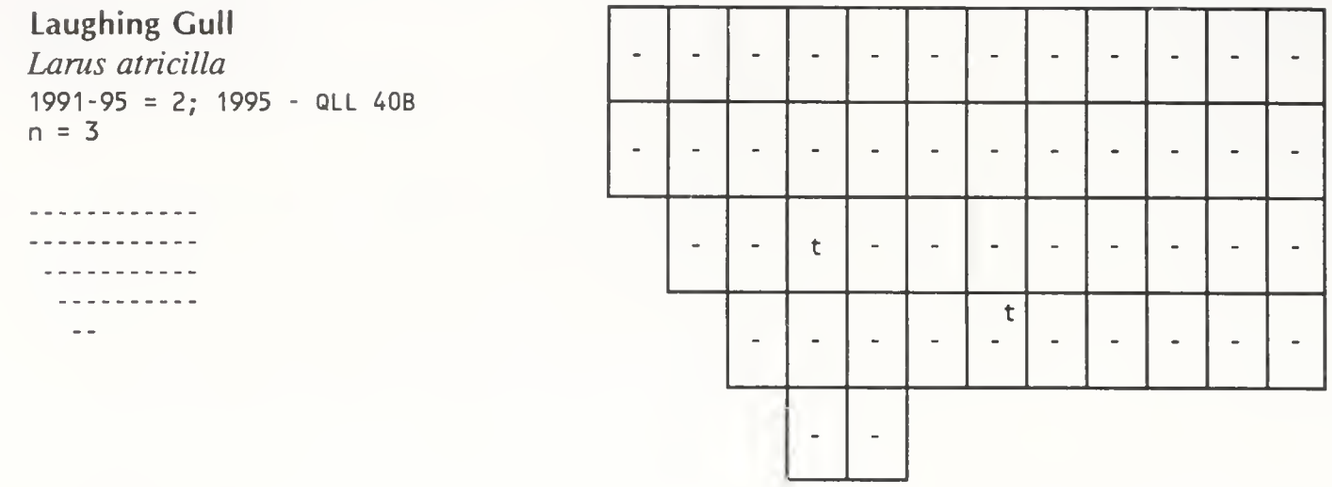


Laughing Gull

Larus atricilla

1991-95 = 2; 1995 - QLL 40B

n = 3

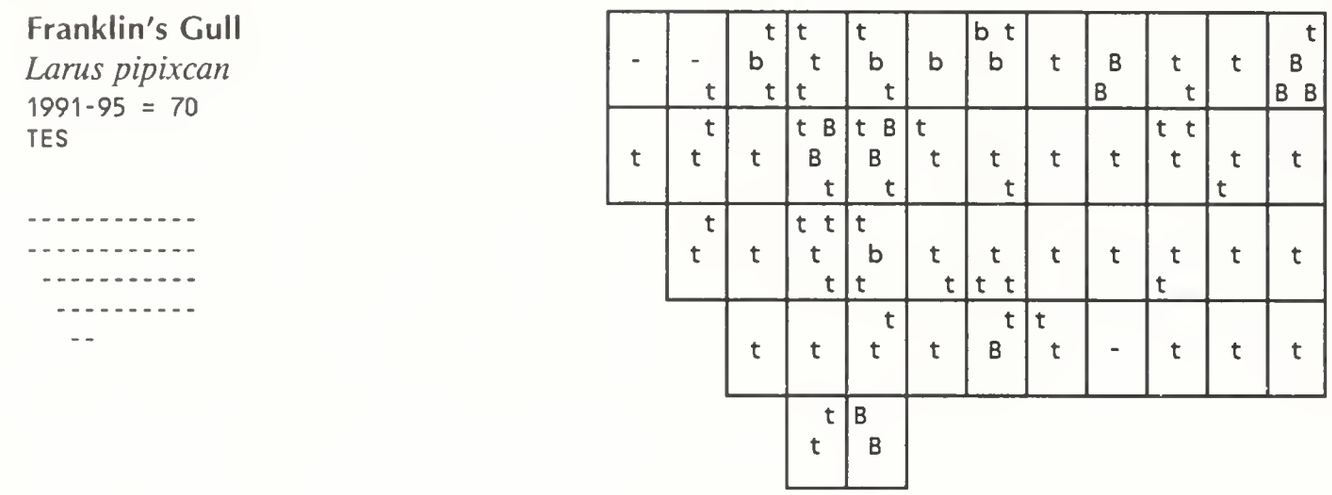


Franklin's Gull

Larus pipixcan

1991-95 = 70

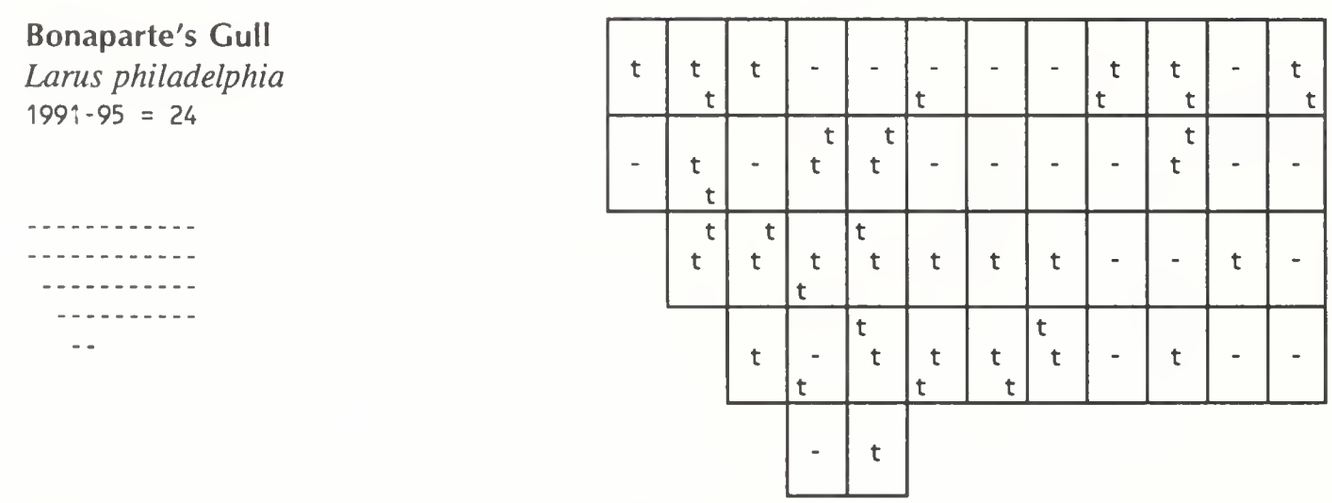
TES



Bonaparte's Gull

Larus philadelphia

1991-95 = 24

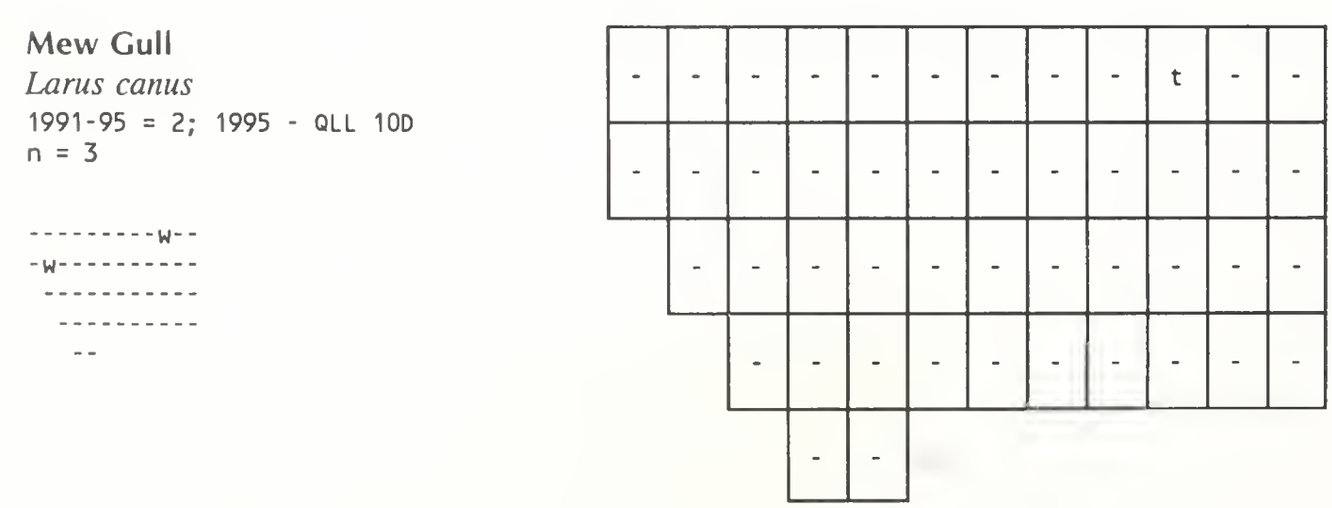


Mew Gull

Larus canus

1991-95 = 2; 1995 - QLL 10D

n = 3



Ring-billed Gull

Larus delawarensis

1991-95 = 149

SI

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WW------WW--
WW-------W--
 ---W-------
  --W--W----
   --
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t t	b t B	t t b t t	t t B t	b t B b	b b b	t t b t t	t B	B t	t t	t t	t t B t t
t t t	t B t b	t b	t B B b t	t B B t t	t t t t	t t t	t t t	B	t B B	t	t t
	t t t	t t	t t b	t B B b	t t t	t t	B t	t t	t	t	t
	t	t t	t	t t t t	t t t	t B t t	t t	t	t	t	-
		t B	t t								

California Gull

Larus californicus

1991-95 = 96

SI

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-WW-W----W--
-W-------W--
 ---W-------
  --WW-W----
   --
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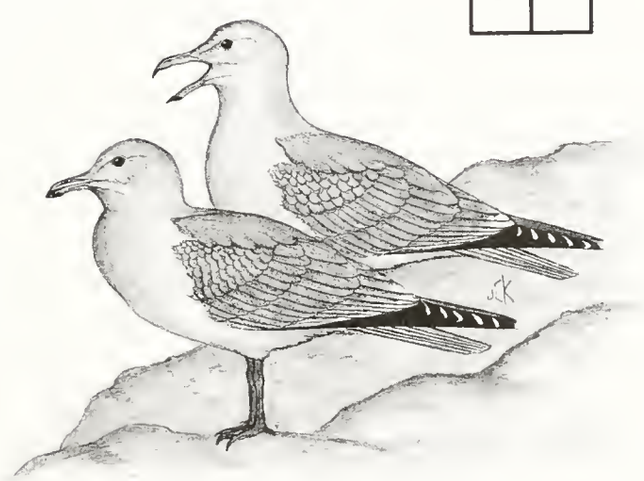
t t	t B	t t b t	t t B b	t B B b	b b	t B t	t B b	B t	t t	b	t t B t t
t t	t B b	t	t B B b t	t t B	t t t	t b	t B	t t	t B B	t t	-
	t	t b	t t t t	t B B b	t	t t	t B t	t	t	t	-
		-	t	t t t t	t t t	t t t	t t	-	t	t	t
			t B	t t b							



Herring Gull

Larus argentatus

1991-95 = 15

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WW-------W--
WW--W----W--
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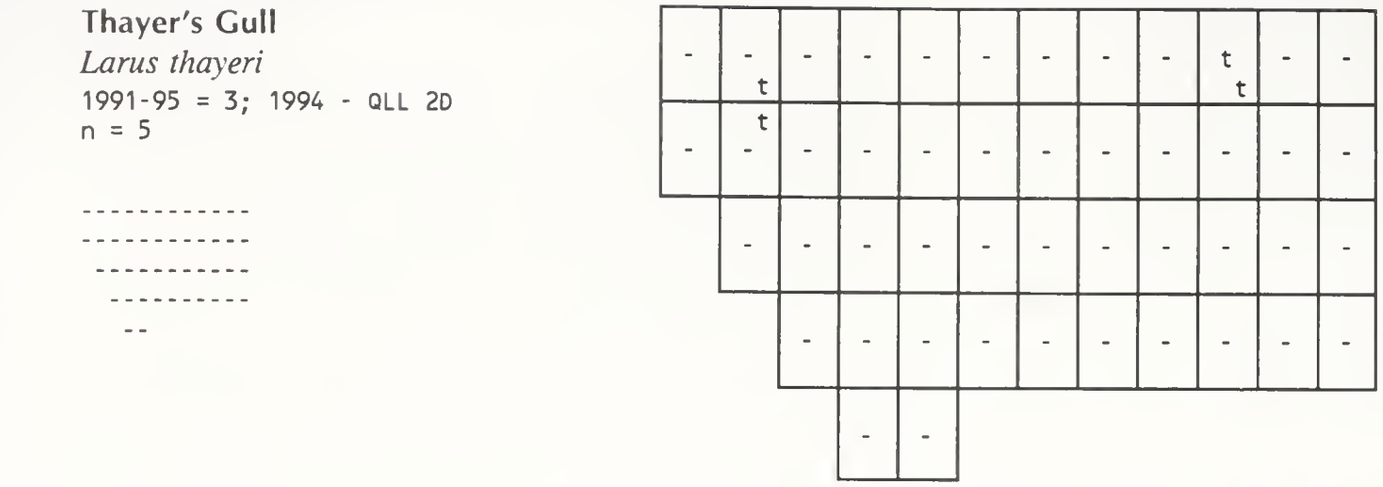
t t	t t	t	-	t t	-	-	-	B	t t	-	t t
t	t	-	t	t	t	-	t	t	t t	-	-
	t	t	-	t t	- t	t	-	t	-	-	-
		-	-	t t	-	t t	-	-	t	-	-
			-	-							

Thayer's Gull

Larus thayeri

1991-95 = 3; 1994 - QLL 2D

n = 5

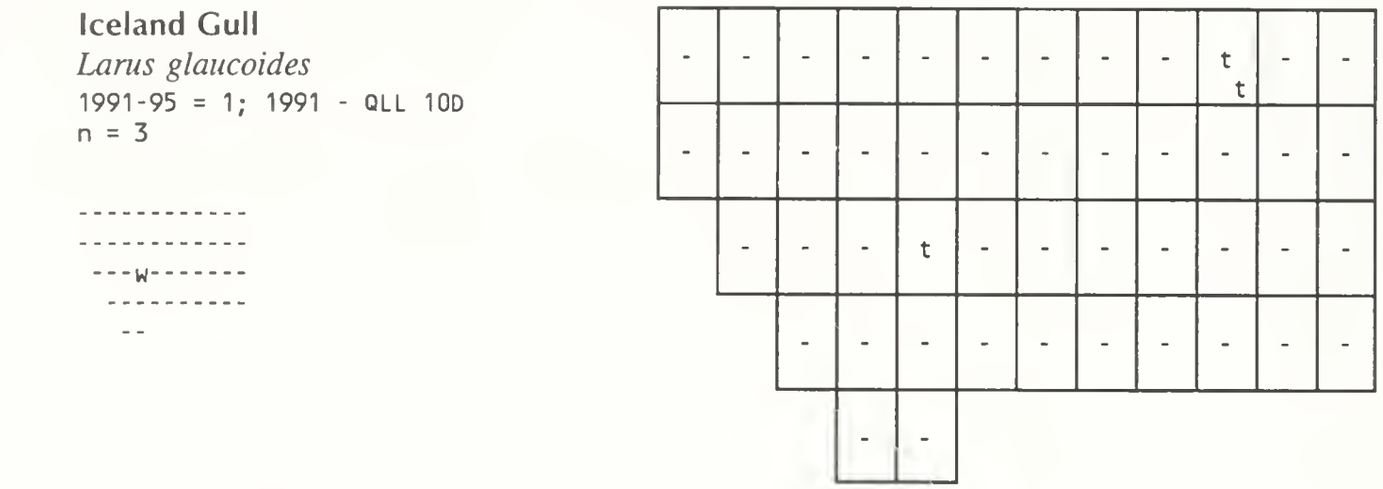


Iceland Gull

Larus glaucoides

1991-95 = 1; 1991 - QLL 10D

n = 3

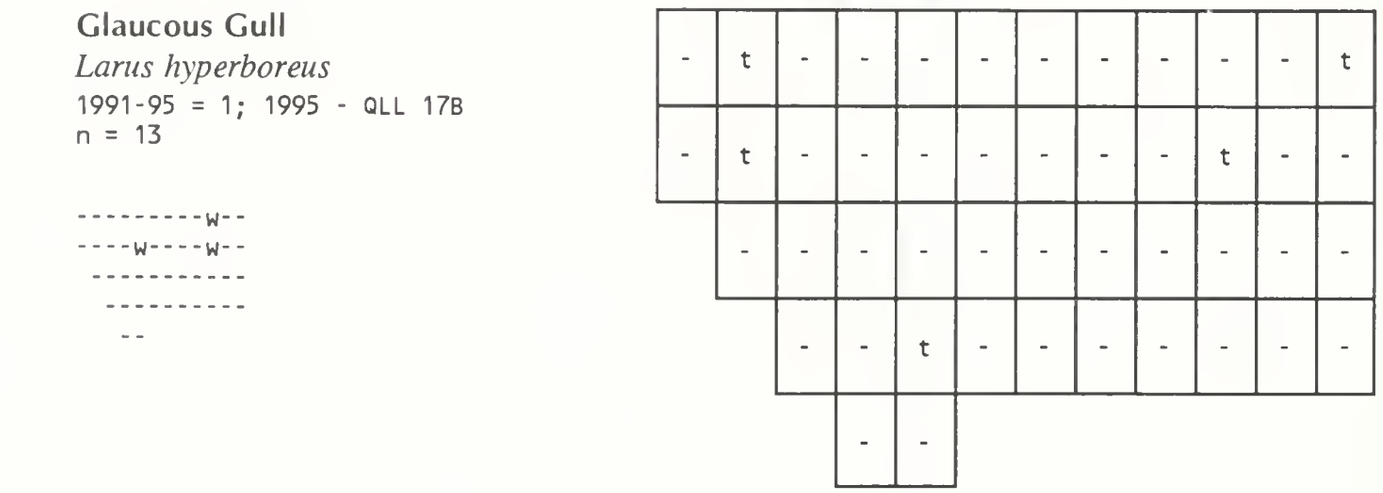


Glaucous Gull

Larus hyperboreus

1991-95 = 1; 1995 - QLL 17B

n = 13

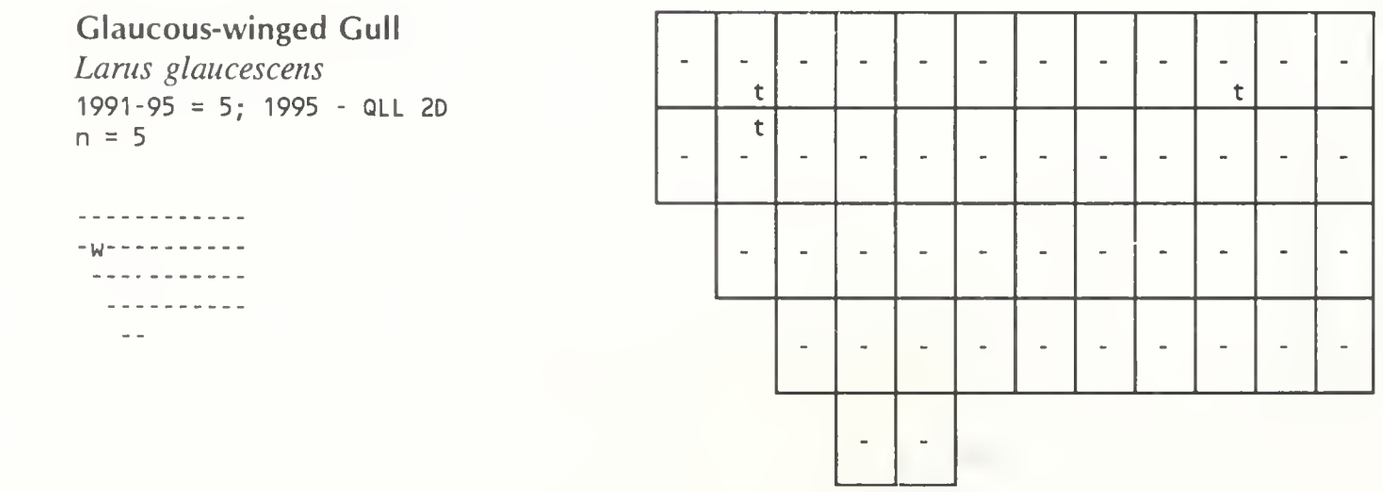


Glaucous-winged Gull

Larus glaucescens

1991-95 = 5; 1995 - QLL 2D

n = 5



Great Black-backed Gull

Larus marinus

1991-95 = 1; 1992 - QLL 17B

n = 3

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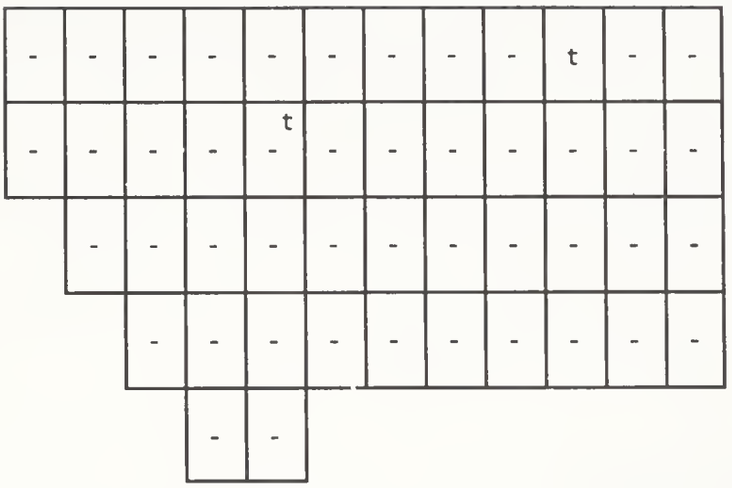

Black-legged Kittiwake

Rissa tridactyla

1991-95 = 0; 1990 - QLL 28A

n = 4

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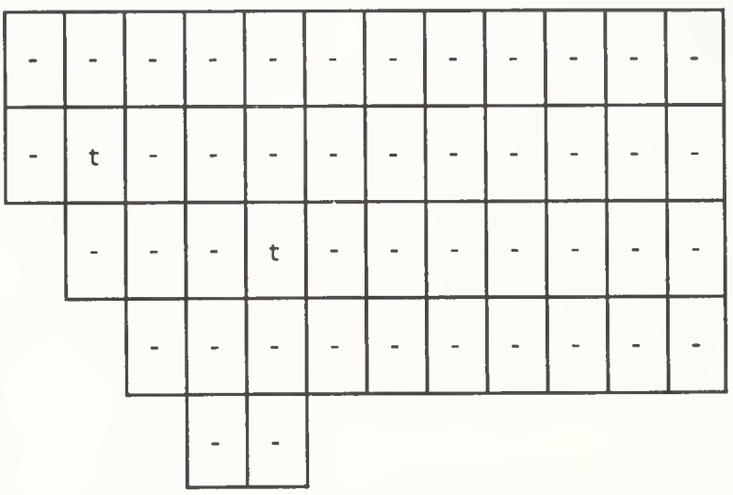

Sabine's Gull

Xema sabini

1991-95 = 2; 1995 - QLL 16B

n = 12

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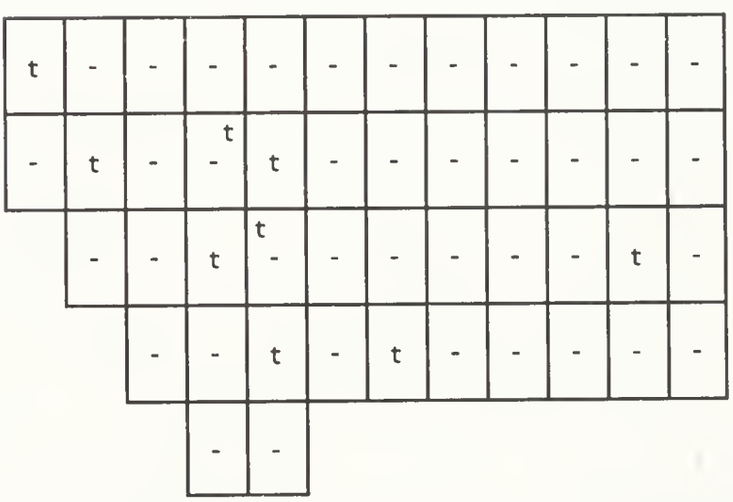

Ivory Gull

Pagophila eburnea

1991-95 = 0; 1974 - LL 10

n = 1

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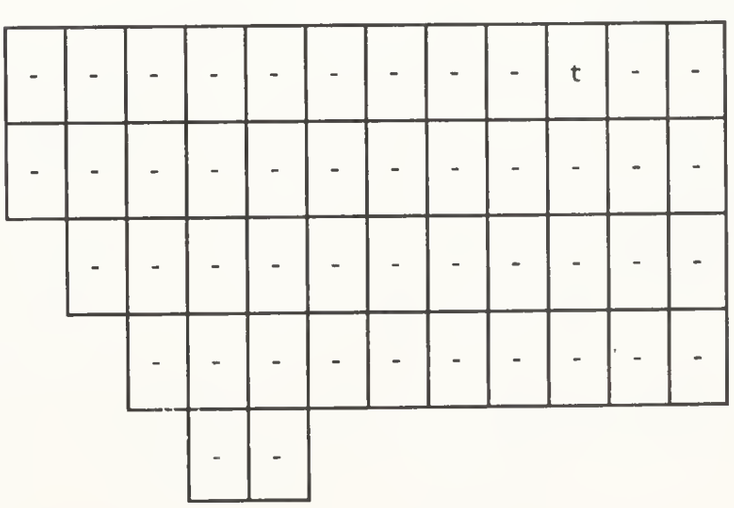
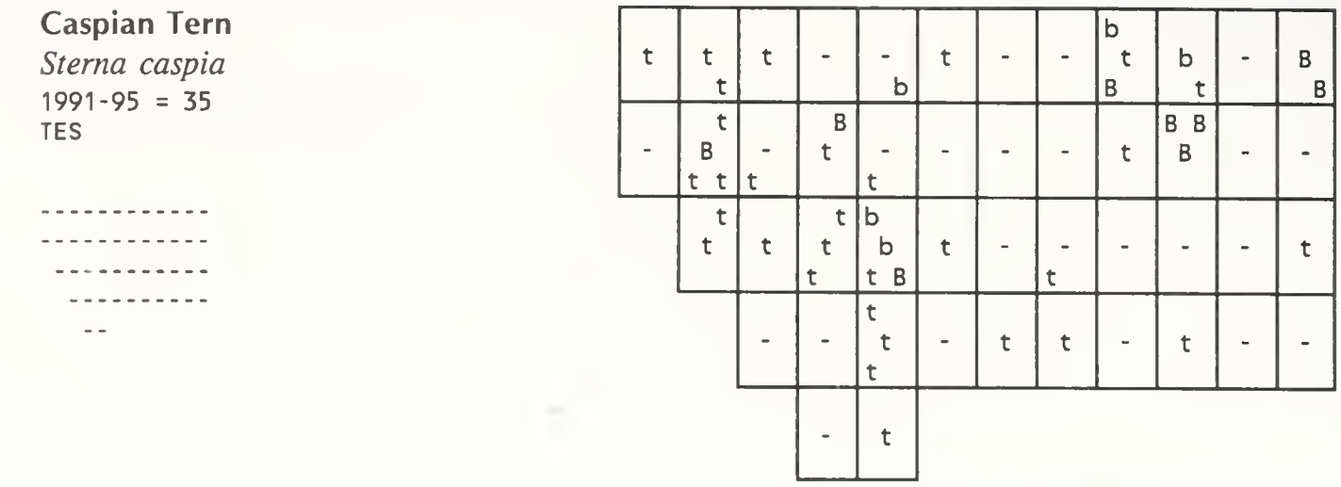


Caspian Tern

Sterna caspia

1991-95 = 35

TES

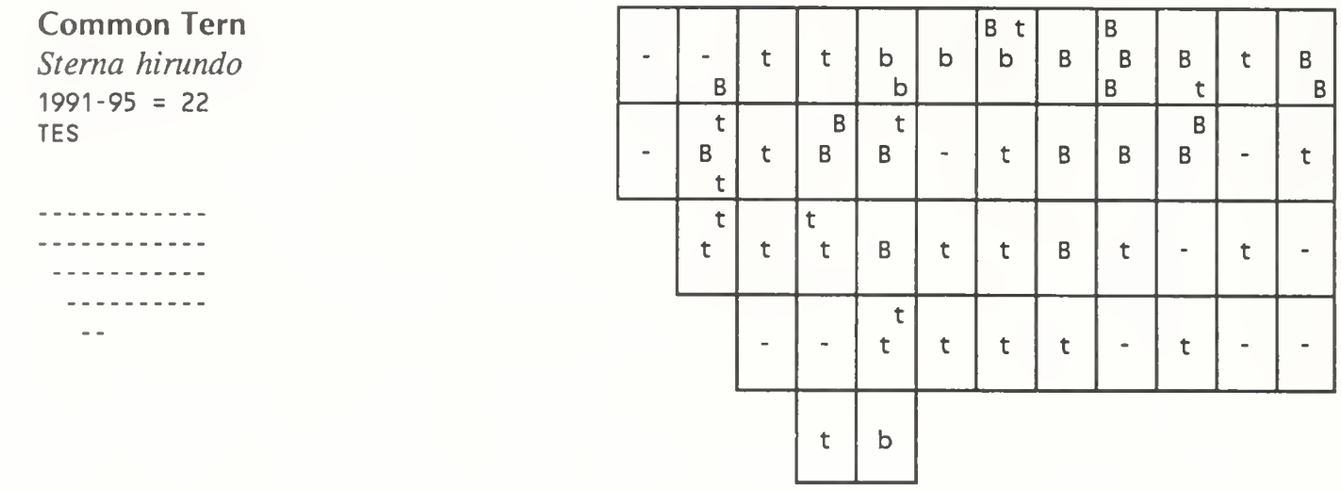


Common Tern

Sterna hirundo

1991-95 = 22

TES

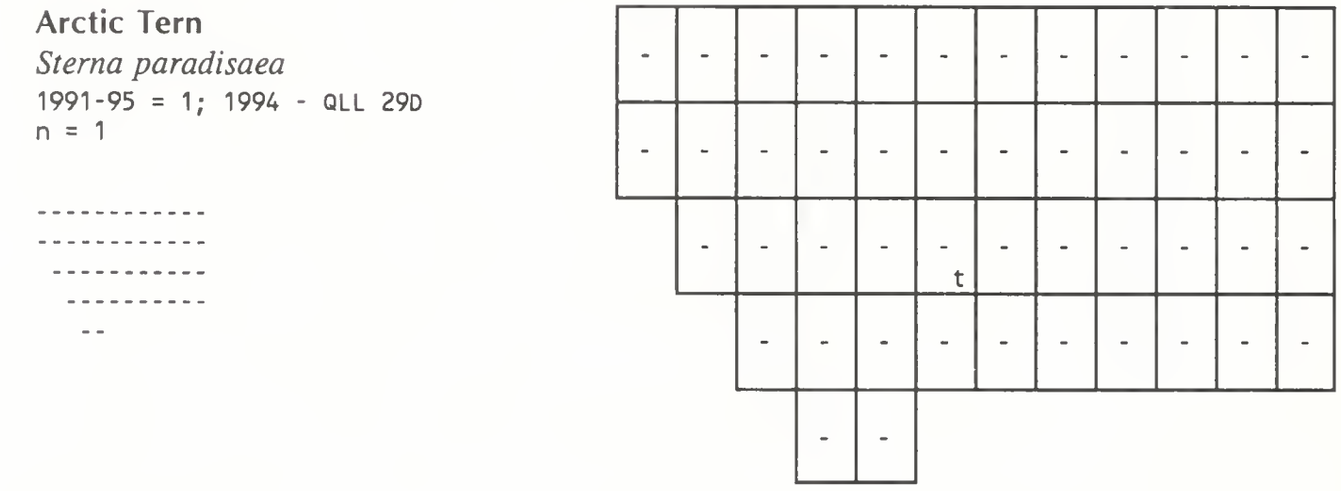


Arctic Tern

Sterna paradisaea

1991-95 = 1; 1994 - QLL 29D

n = 1

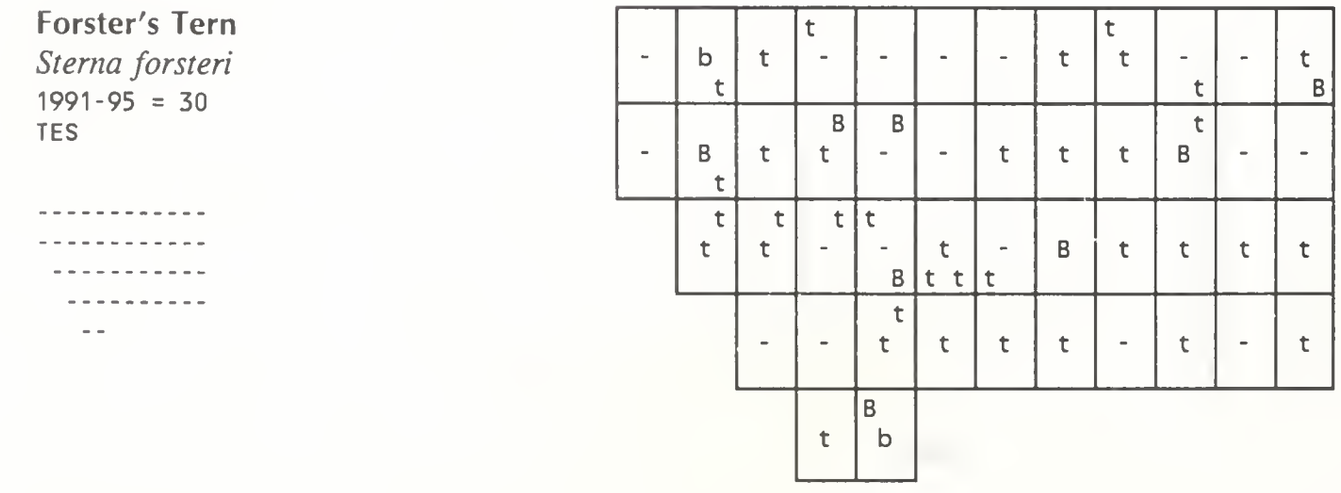


Forster's Tern

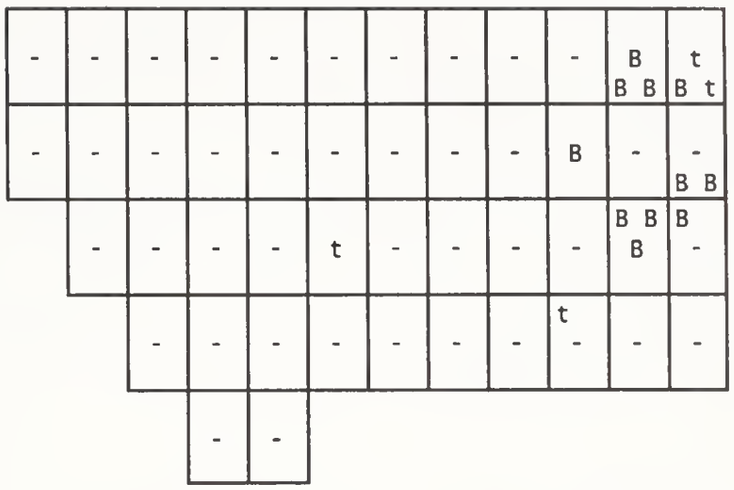
Sterna forsteri

1991-95 = 30

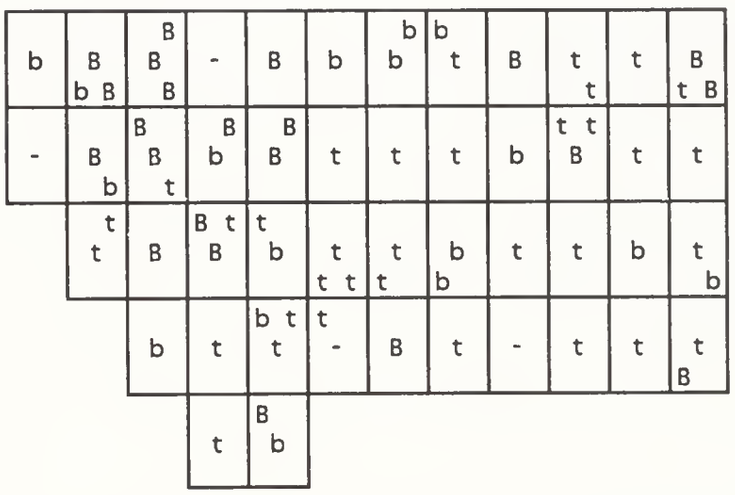
TES



Least Tern
Sterna antillarum
1991-95 = 11
TES

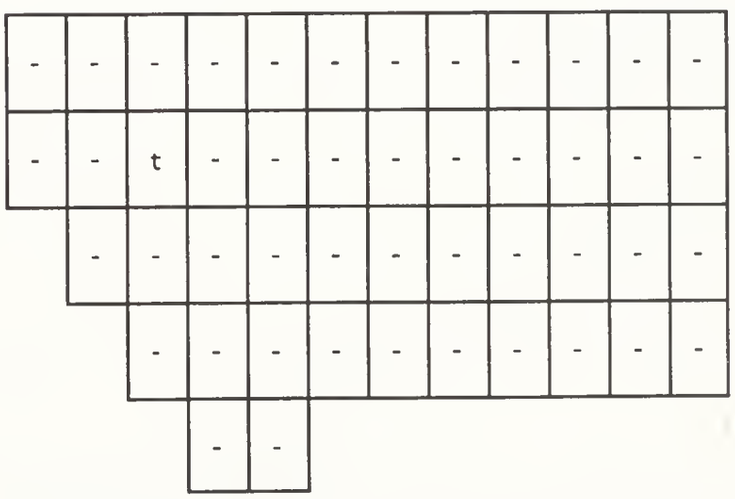


Black Tern
Chlidonias niger
1991-95 = 52
TES

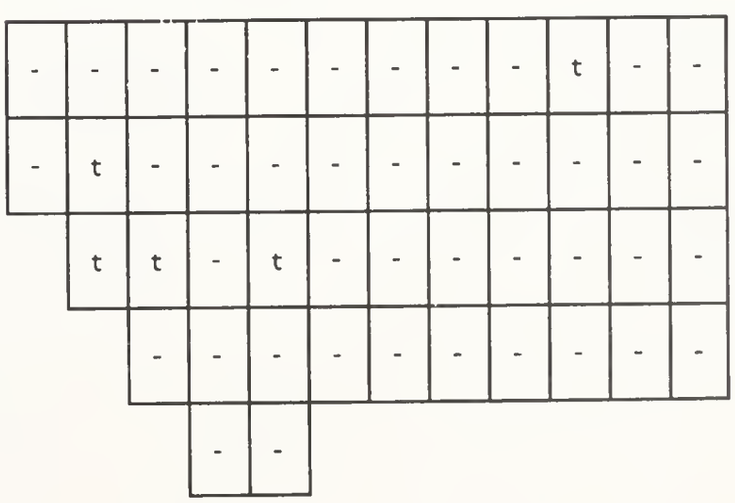


■ Alcidae

Marbled Murrelet
Brachyramphus marmoratus
1991-95 = 0; 1985 - QLL 15C
n = 1



Ancient Murrelet
Synthliboramphus antiquus
1991-95 = 0; 1979 - LL 10
n = 5



Rock Dove

Columba livia

1991-95 = 165
(introduced)

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WWWWWWWWWWWW
WWWWWWWWWWWW
 WWWW-----ww
  -WWWWW---W
   w-
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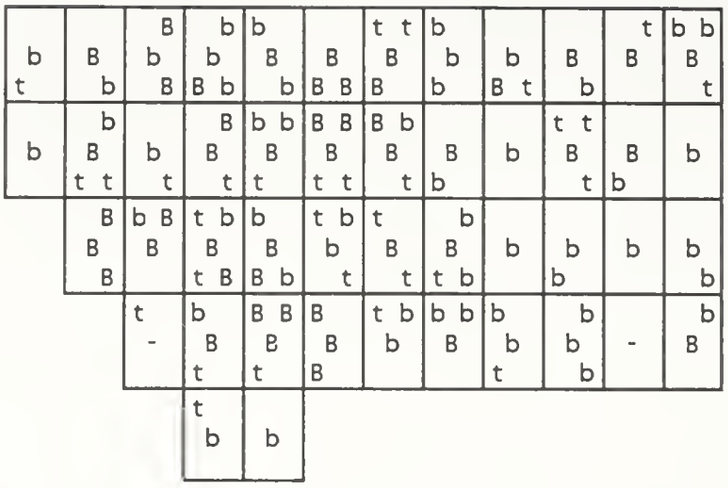

Band-tailed Pigeon

Columba fasciata

1991-95 = 1; 1991 - QLL 15A
n = 18

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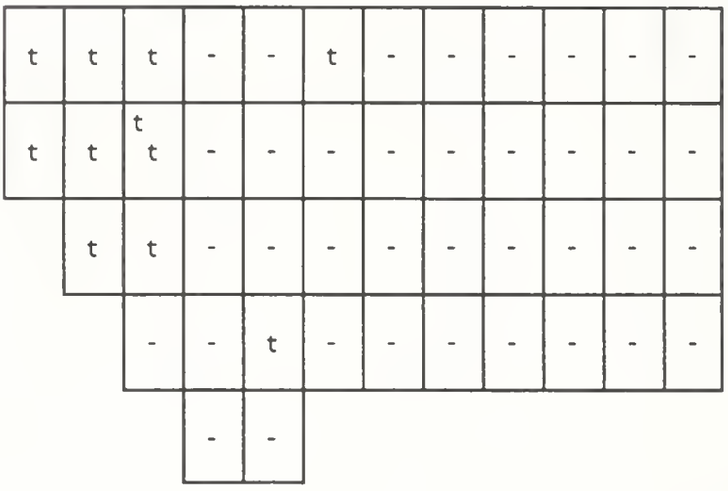

White-winged Dove

Zenaida asiatica

1991-95 = 0; 1979 - LL 17
n = 1

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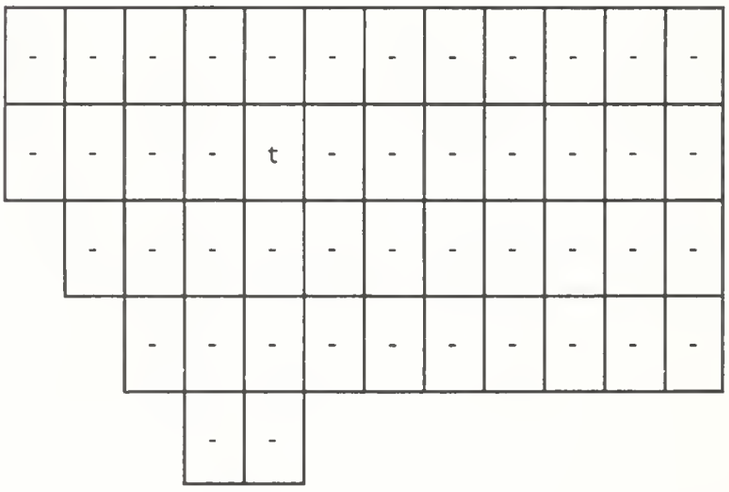

Mourning Dove

Zenaida macroura

1991-95 = 309

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WW---W--w---
-w--W-------
 W-W--------
  --WW-w----
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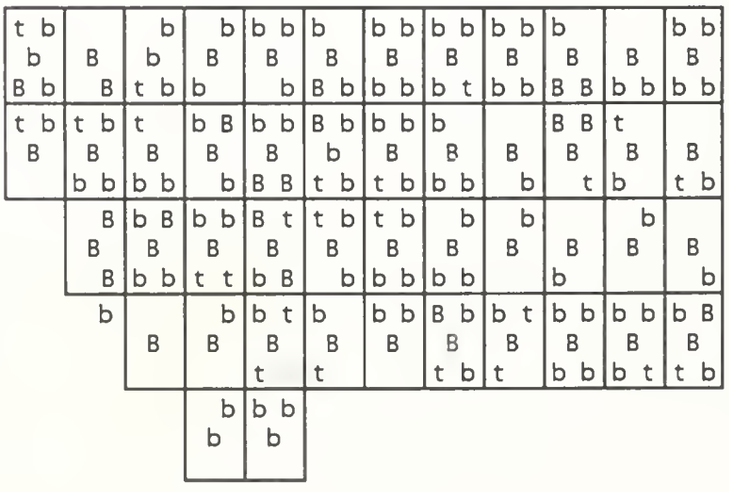
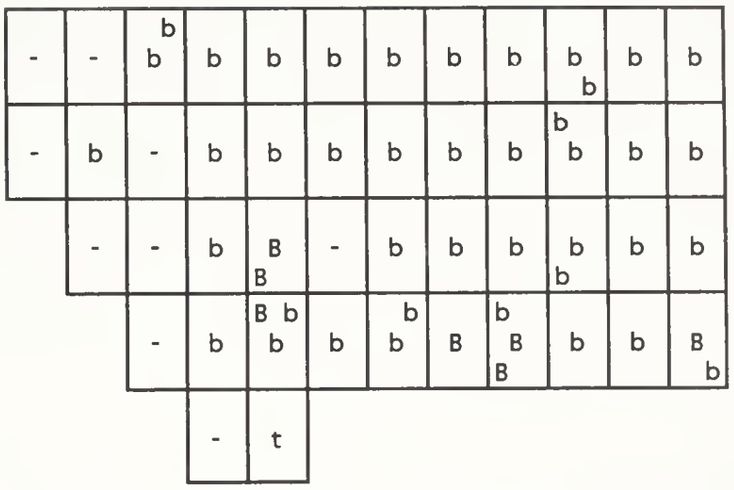
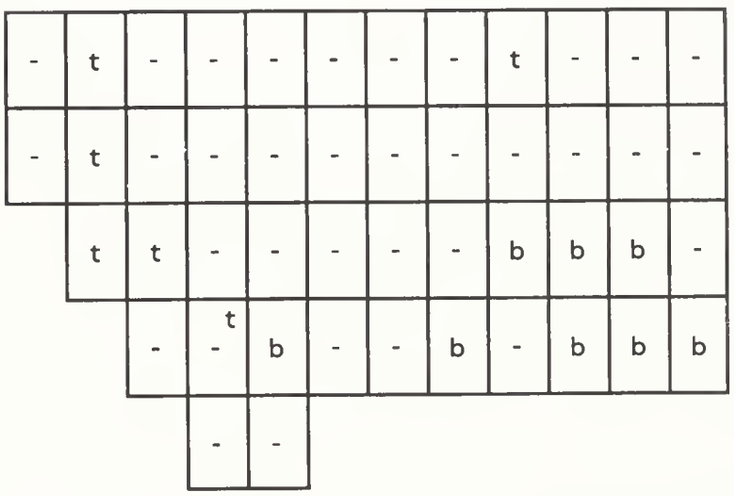


Black-billed Cuckoo
Coccyzus erythropthalmus
1991-95 = 12

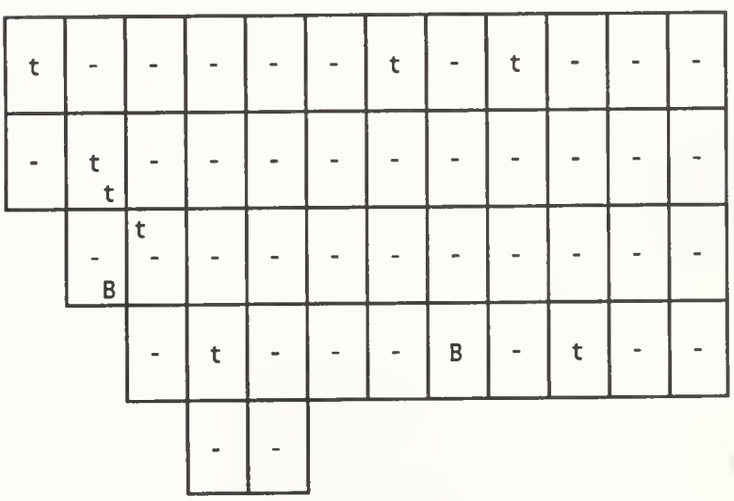


Yellow-billed Cuckoo
Coccyzus americanus
1991-95 = 1
TES



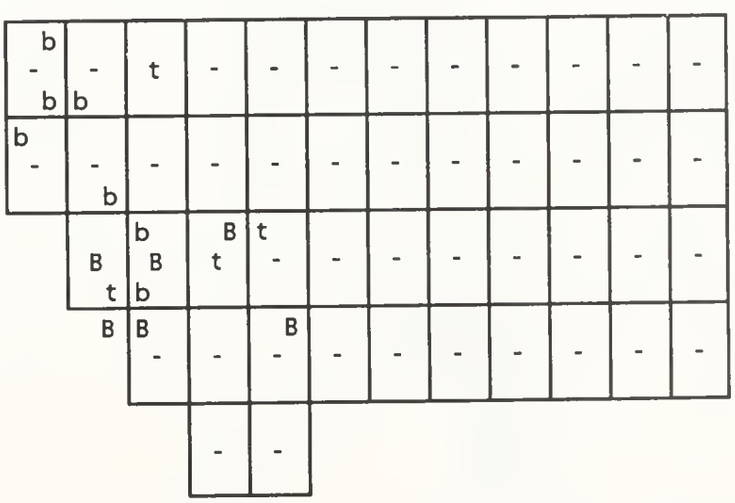
■ STRIGIFORMES ■ Tytonidae

Barn Owl
Tyto alba
1991-95 = 3; 1995 - QLL 25D
n = 13
SI



■ Strigidae

Flammulated Owl
Otus flammeolus
1991-95 = 17
TES



Eastern Screech-Owl

Otus asio

1991-95 = 2

SI

```
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 -----------
  -----Ww---
   --
```

-	-	-	-	-	-	-	-	-	-	-	t
-	-	-	b	-	-	-	-	-	t	-	b
	-	-	-	-	-	-	-	b	b	t	-
		-	-	b	-	-	b B	t	b	-	-
			-	-							

Western Screech-Owl

Otus kennicottii

1991-95 = 19

SI

```
-w----------
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 w----------
  ----------
   --
```

-	t t t	-	-	-	-	-	-	-	-	-	-
-	b t b b	t -	b -	-	-	-	-	-	-	-	-
	B t B	t - b	-	-	-	-	-	-	-	-	-
	t	-	-	B	-	-	-	-	-	-	-
			-	-							

Great Horned Owl

Bubo virginianus

1991-95 = 154

```
WWWWWW-WWWWW
WWWWWWWWWWWW
 WWWW-WW-WWW
  -WWWWWWWW-
   -W
```

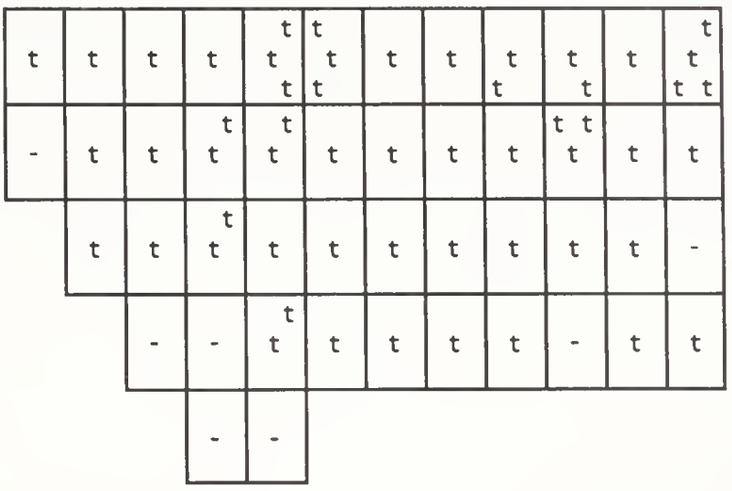
b B b	t B B	t B b B	B B t	b B b	B b b	B B	B	B B t	B B	B	b B B
t b	b B B b B	B B b t	B B B B b	b B B	b b b	B	B	B	b B B	B	B
	b B B	b B B B t	B B b t	B t B B B	B	t B	b B B	b B	B	B	B b
	B	t b B	b B	t B B t b	B B B	b b B t	b B b	B B t B	b B	b B	b B
			B	B B							

Snowy Owl

Nyctea scandiaca

1991-95 = 26

```
Ww-wWWwWWWWW
-W-wWWwWWWww
 w--wWWWwww-
  w-W-www--w
   --
```



Northern Hawk-Owl

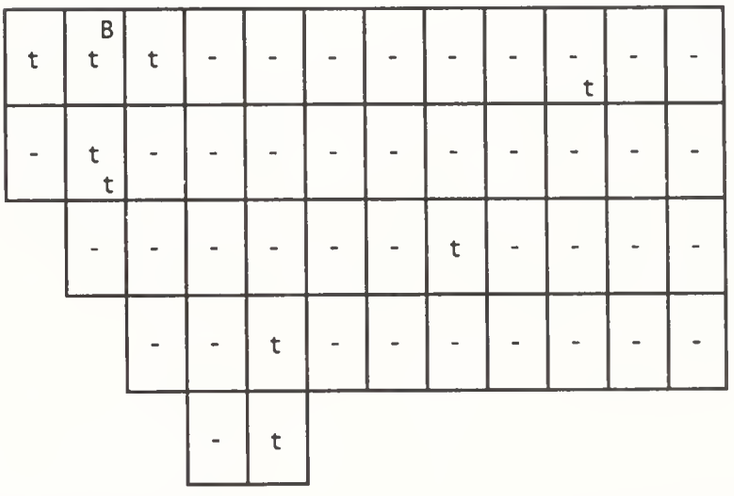
Surnia ulula

1991-95 = 4; 1994 - QLL 2B

n = 18

SI

```
-w---------w
-w----------
 -----------
  --w-------
   --
```

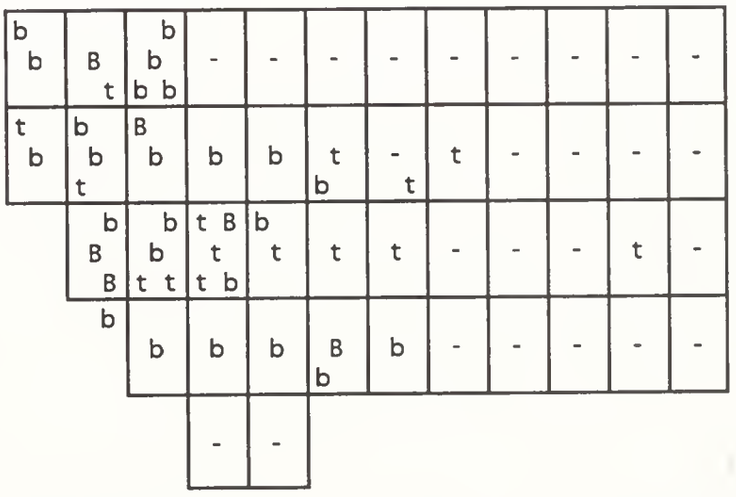


Northern Pygmy-Owl

Glaucidium gnoma

1991-95 = 53

```
WWW---------
WWWw--------
 WWWW-w-----
  --WW------
   --
```



Burrowing Owl

Speotyto cunicularia

1991-95 = 44

TES

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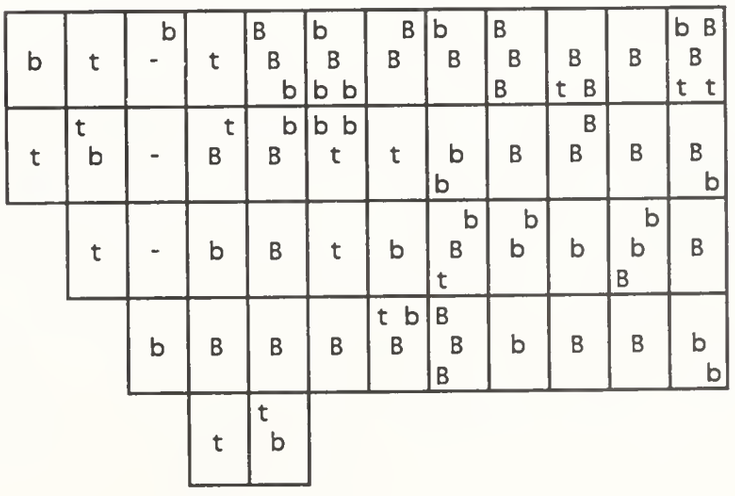
```



Barred Owl

Strix varia

1991-95 = 30

```
WW----------
WWW---------
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  ----------
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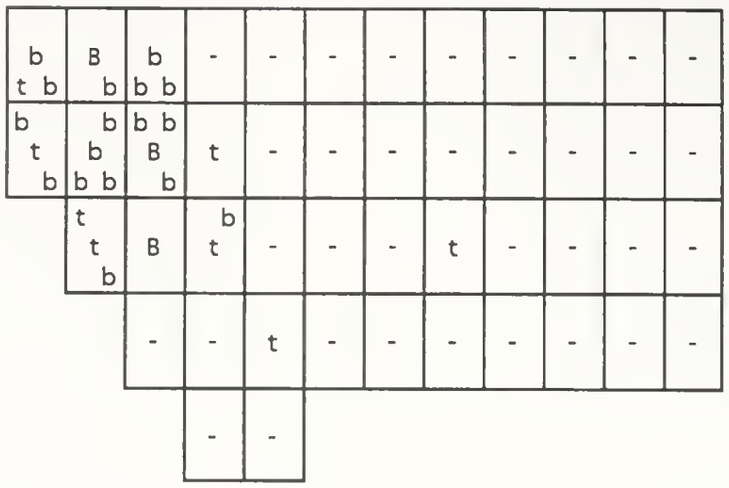
```



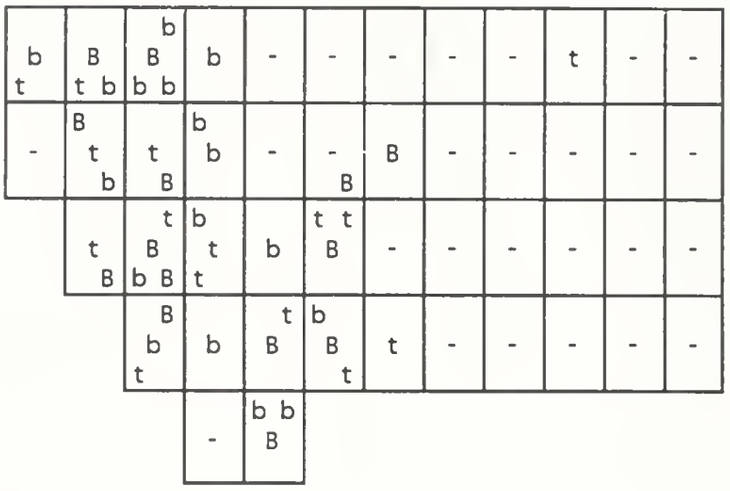
Great Gray Owl

Strix nebulosa

1991-95 = 41

TES

```
WWW---------
--W---------
 W--w-------
  --W-------
   --
```

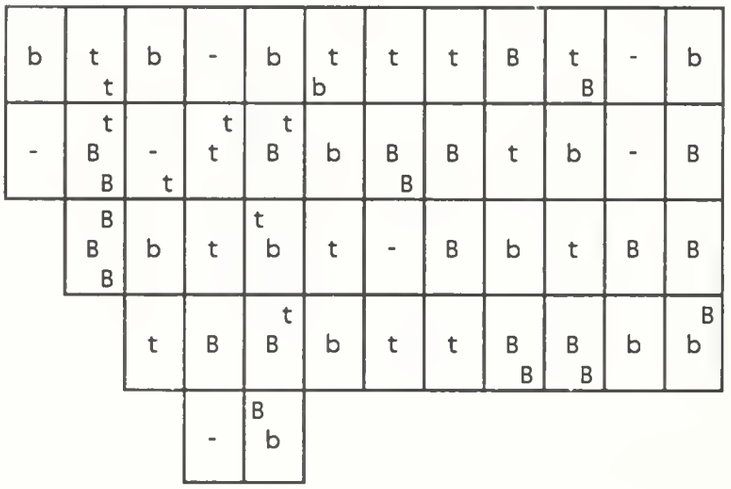


Long-eared Owl

Asio otus

1991-95 = 32

```
ww---W--W--w
-W-w--------
 W-W------w-
  --Ww-WWWw-
   --
```

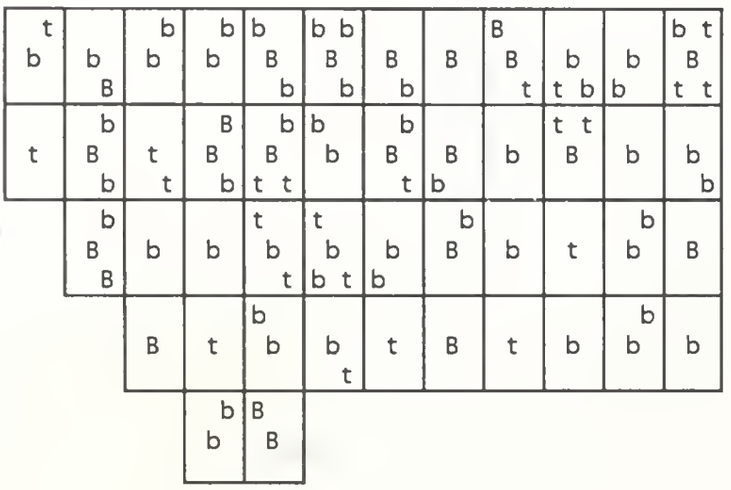


Short-eared Owl

Asio flammeus

1991-95 = 79

```
-W-WWW-WWW-w
-W-WW---WW--
 WW-WWWWWWWW
  --W-WW-Ww-
   -w
```



Boreal Owl
Aegolius funereus
1991-95 = 40
TES

```
-w----------
--w---------
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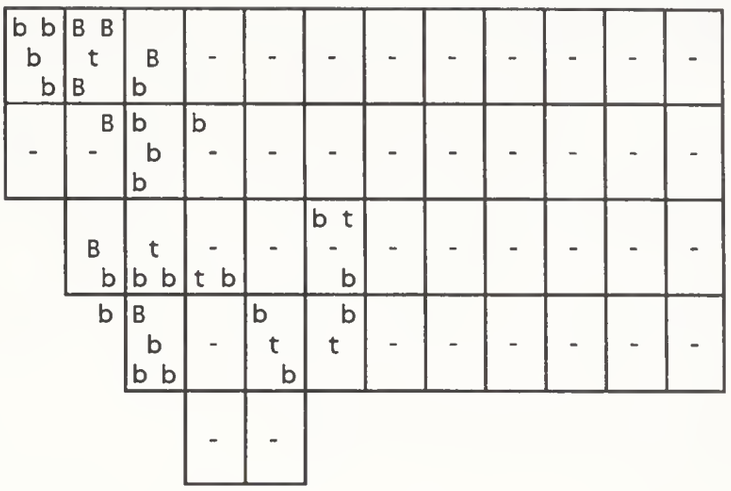
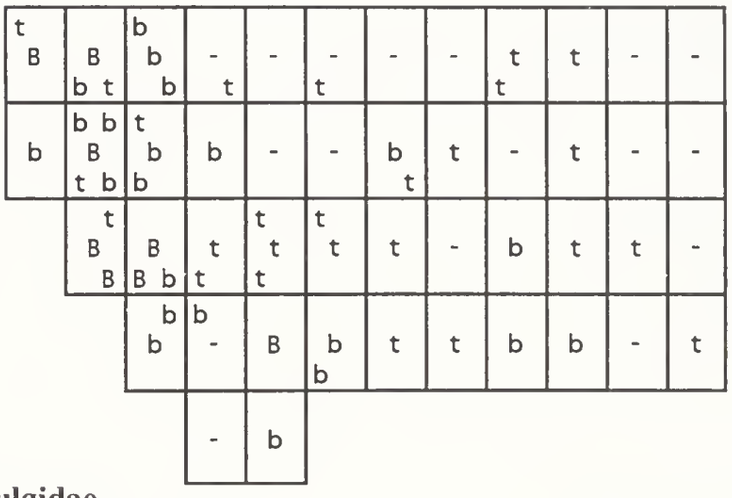
  ----------
   --
```



Northern Saw-whet Owl
Aegolius acadicus
1991-95 = 45

```
WWW------w--
WW--w-w-----
 W-W--------
  --WW-WWW--
   -w
```



CAPRIMULGIFORMES ■ Caprimulgidae

Common Nighthawk
Chordeiles minor
1991-95 = 169

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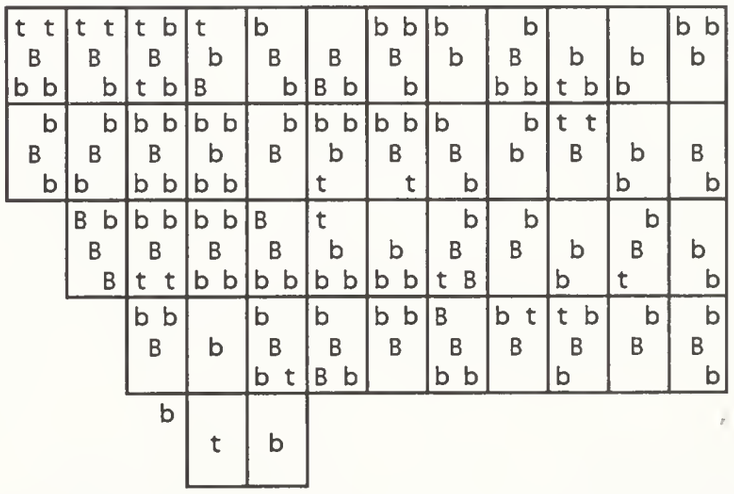
```



Common Poorwill
Phalaenoptilus nuttallii
1991-95 = 12

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  ----------
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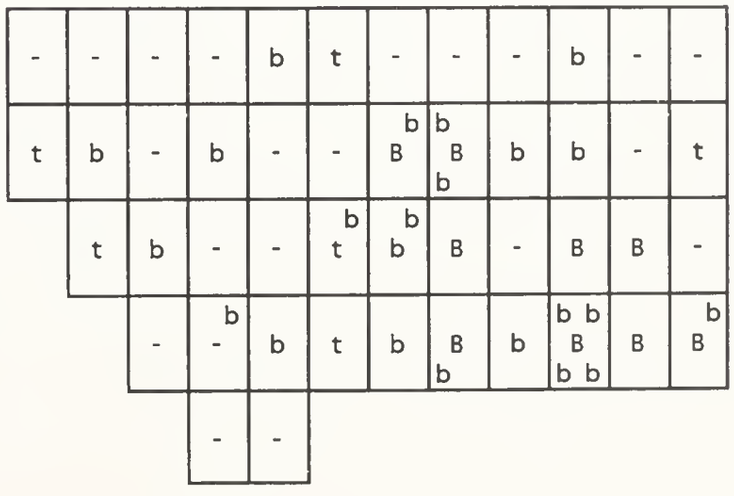
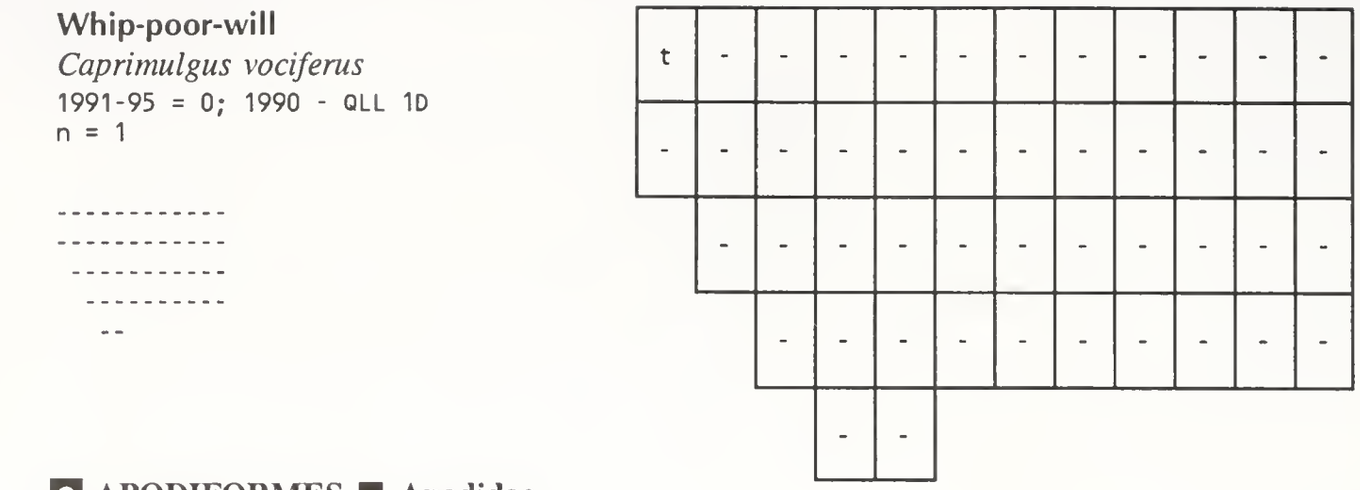
```

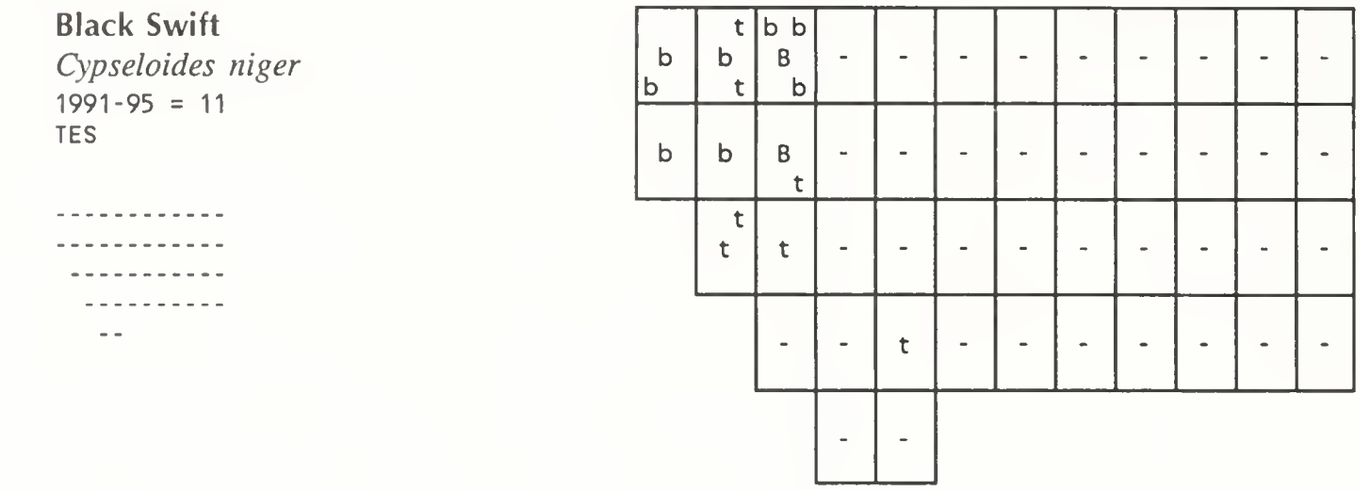


Whip-poor-will
Caprimulgus vociferus
1991-95 = 0; 1990 - QLL 1D
n = 1

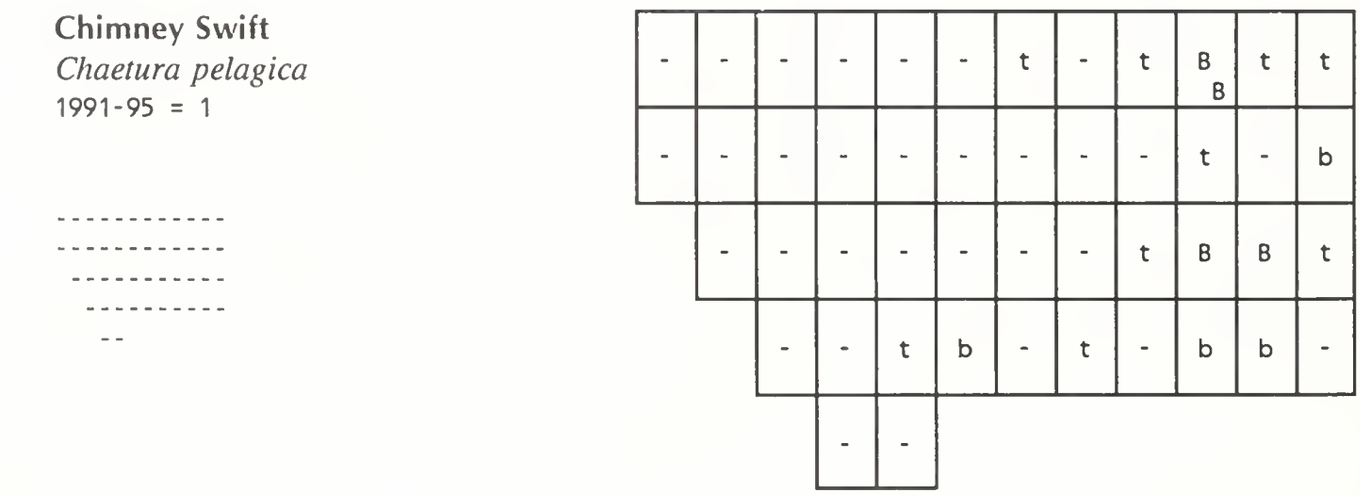


■ APODIFORMES ■ Apodidae

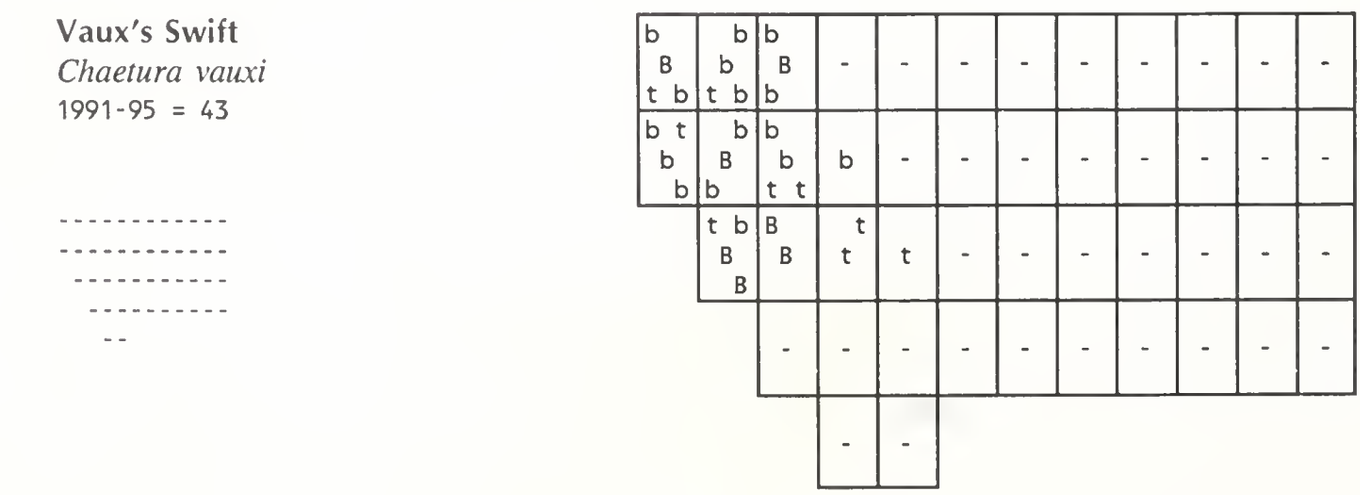
Black Swift
Cypseloides niger
1991-95 = 11
TES



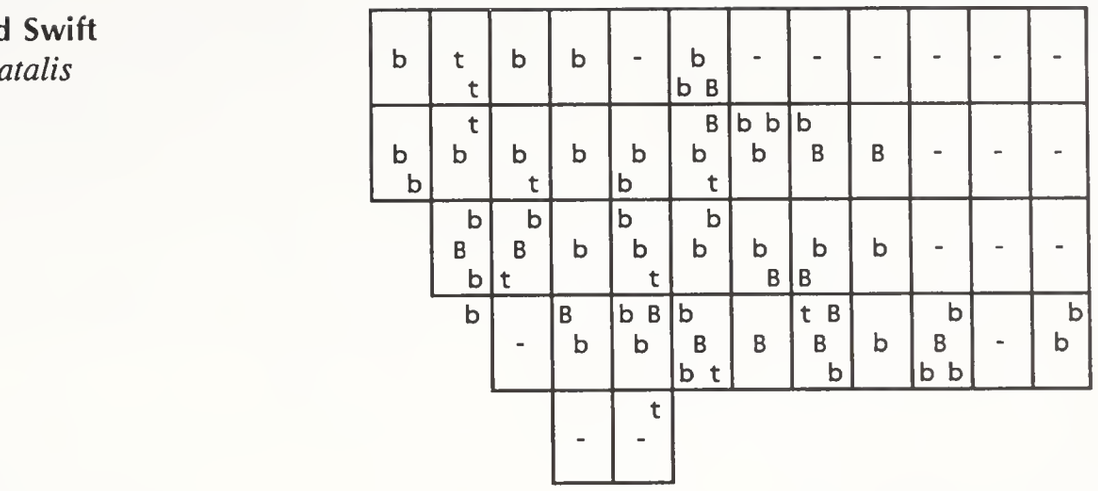
Chimney Swift
Chaetura pelagica
1991-95 = 1



Vaux's Swift
Chaetura vauxi
1991-95 = 43

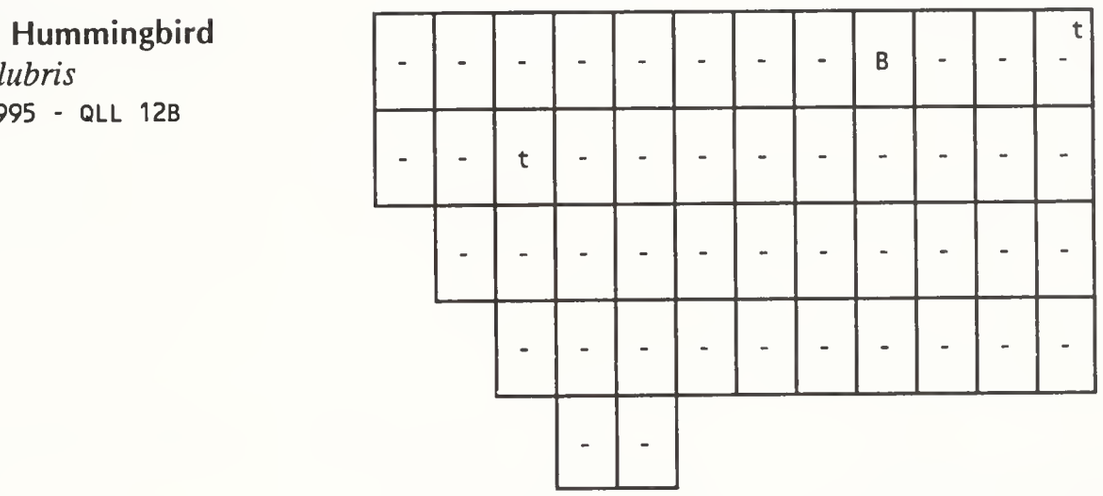


White-throated Swift
Aeronautes saxatalis
1991-95 = 53

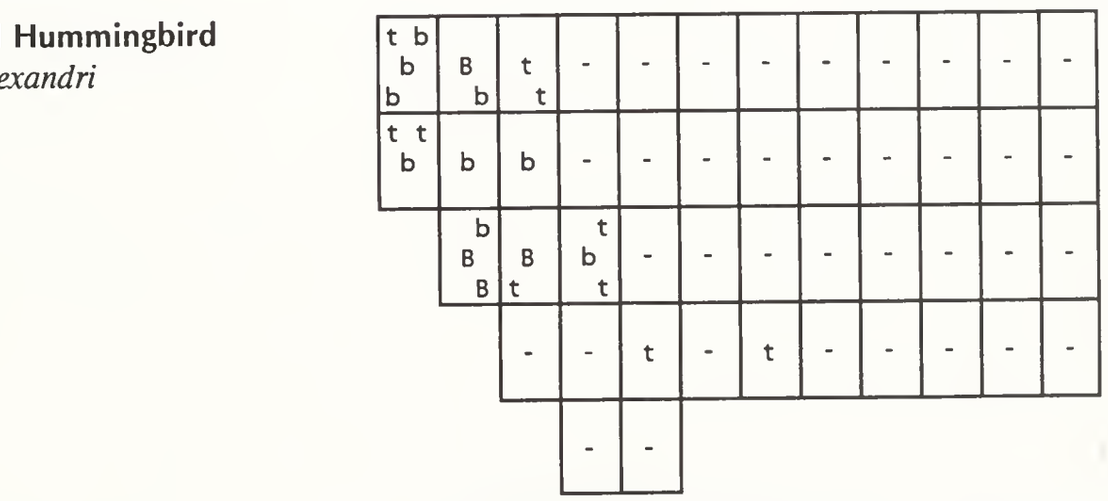


■ **Trochilidae**

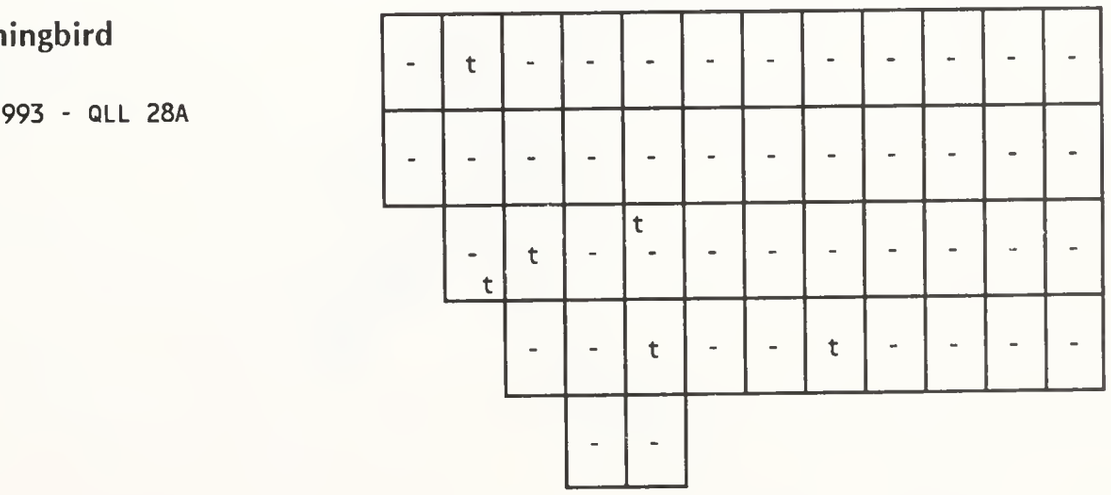
Ruby-throated Hummingbird
Archilochus colubris
1991-95 = 1; 1995 - QLL 12B
n = 8



Black-chinned Hummingbird
Archilochus alexandri
1991-95 = 23



Anna's Hummingbird
Calypte anna
1991-95 = 2; 1993 - QLL 28A
n = 7



Calliope Hummingbird

Stellula calliope

1991-95 = 66

--

B t B B b	t B b	t b B b b	b	-	-	-	-	-	-	-	-
t b b b	t B b	B t B t	b b t	-	-	t	-	-	-	-	-
	t b B B	b B b	b b t	t b b	b b	-	-	-	-	t	-
		t	t b	B b	b B	b	b B	-	-	-	-
			-	B b							

Broad-tailed Hummingbird

Selasphorus platycercus

1991-95 = 1; 1994 - QLL 29D

n = 11

--

-	t	b	-	-	-	-	-	-	-	-	-
t	-	-	-	-	-	-	-	-	-	-	-
	-	t	-	-	- t	-	-	-	-	-	-
		-	-	-	t	-	-	-	-	-	-
			-	b							

Rufous Hummingbird

Selasphorus rufus

1991-95 = 78

--

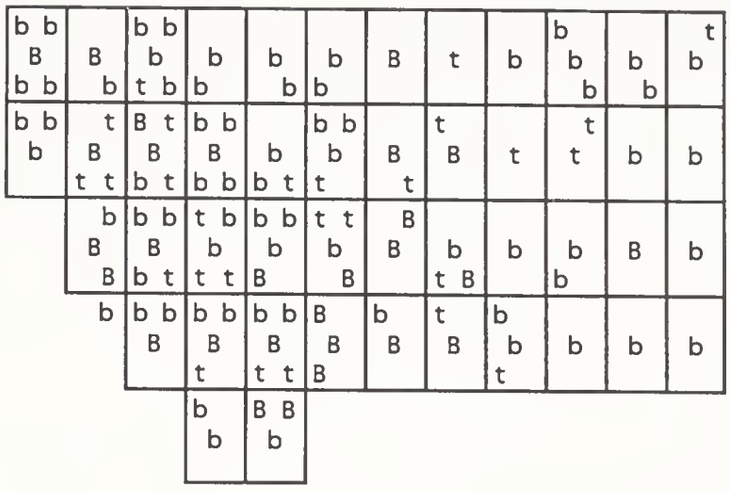
B t B B b	t t B t b	b b B b b	t	t	t t	-	-	-	-	-	-
t b b b	t B	B B b t	b t B t	t	-	-	-	-	-	-	-
	B b B B	B b t	b b b b b	b -	t t	-	-	-	-	-	-
	b	b	t B	t t t	b t t	t	t B	-	-	-	-
			-	b t							

Belted Kingfisher

Ceryle alcyon

1991-95 = 165

```
WWW-W----W--
WWWW-WW-----
 WWWww----W-
  -WWWWWWW--
   WW
```



■ PICIFORMES ■ Picidae

Lewis' Woodpecker

Melanerpes lewis

1991-95 = 47

```
WW----------
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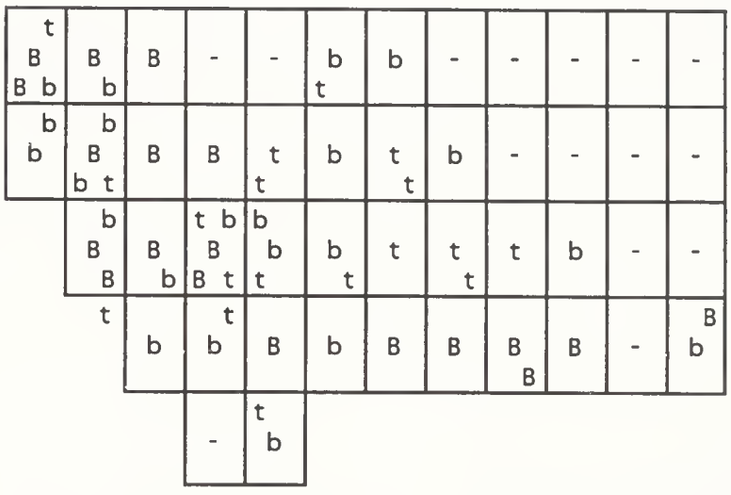
 WW---------
  --W--W-W--
   --
```



Red-headed Woodpecker

Melanerpes erythrocephalus

1991-95 = 20

```
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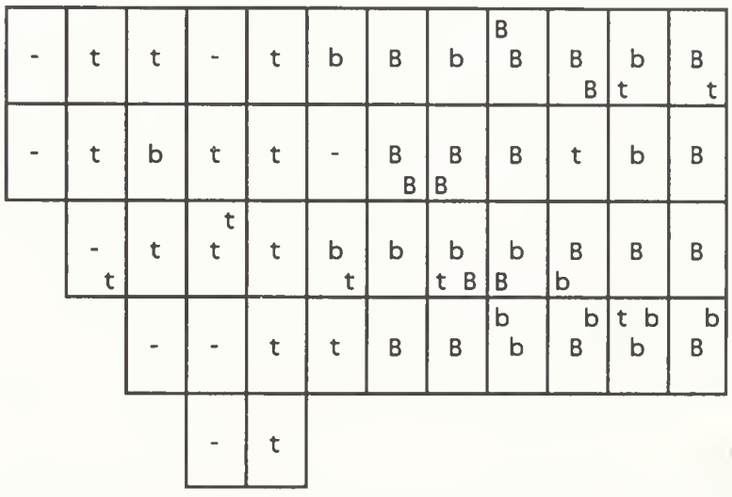
 --W--------
  ----------
   --
```



Red-bellied Woodpecker

Melanerpes carolinus

1991-95 = 1; 1992 - 10C

n = 2

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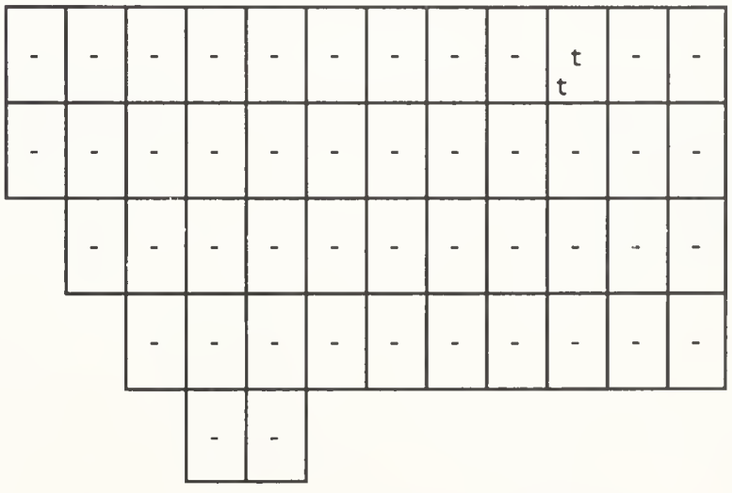
  ----------
   --
```

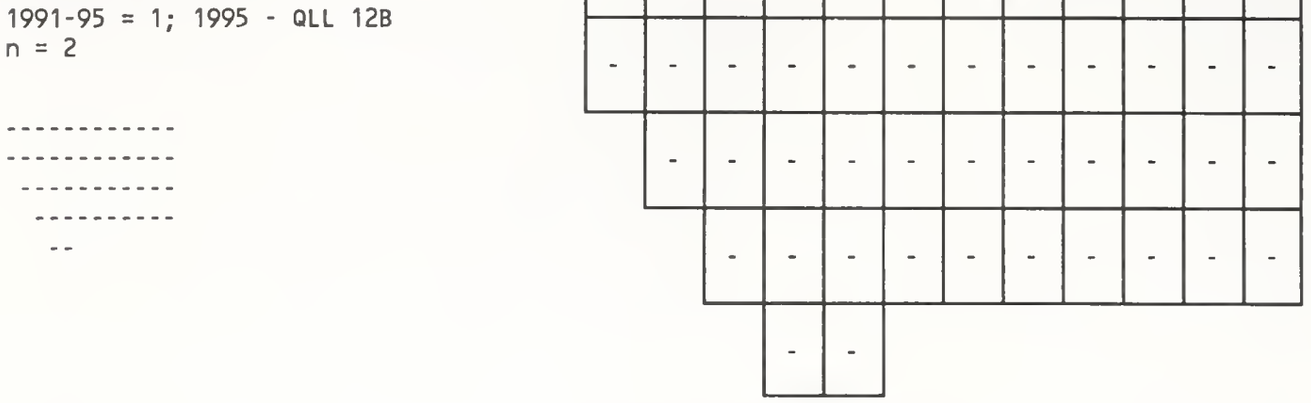


Yellow-bellied Sapsucker

Sphyrapicus varius

1991-95 = 1; 1995 - QLL 12B

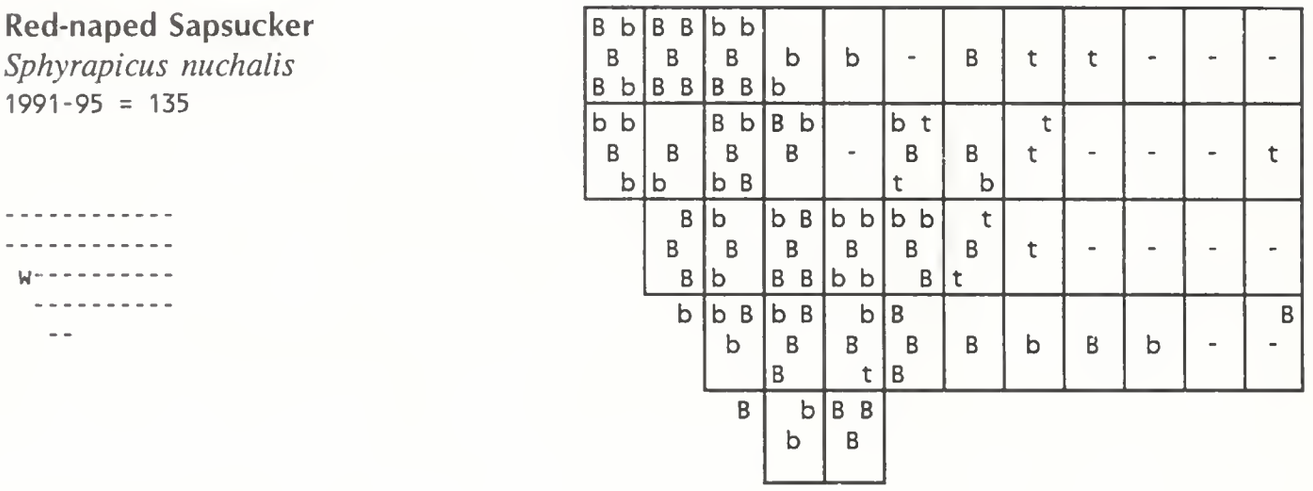
n = 2



Red-naped Sapsucker

Sphyrapicus nuchalis

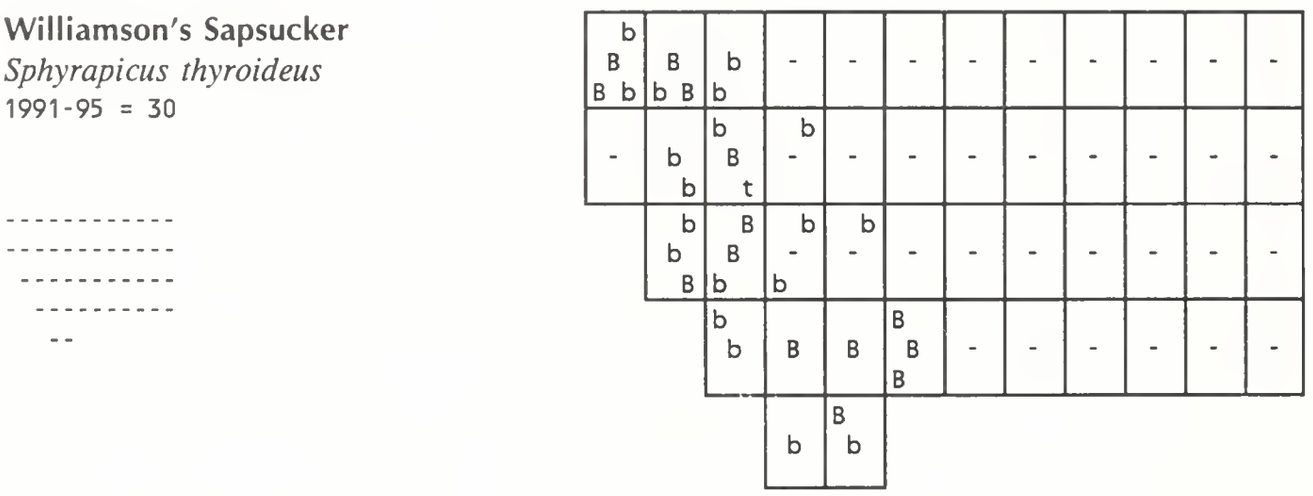
1991-95 = 135



Williamson's Sapsucker

Sphyrapicus thyroideus

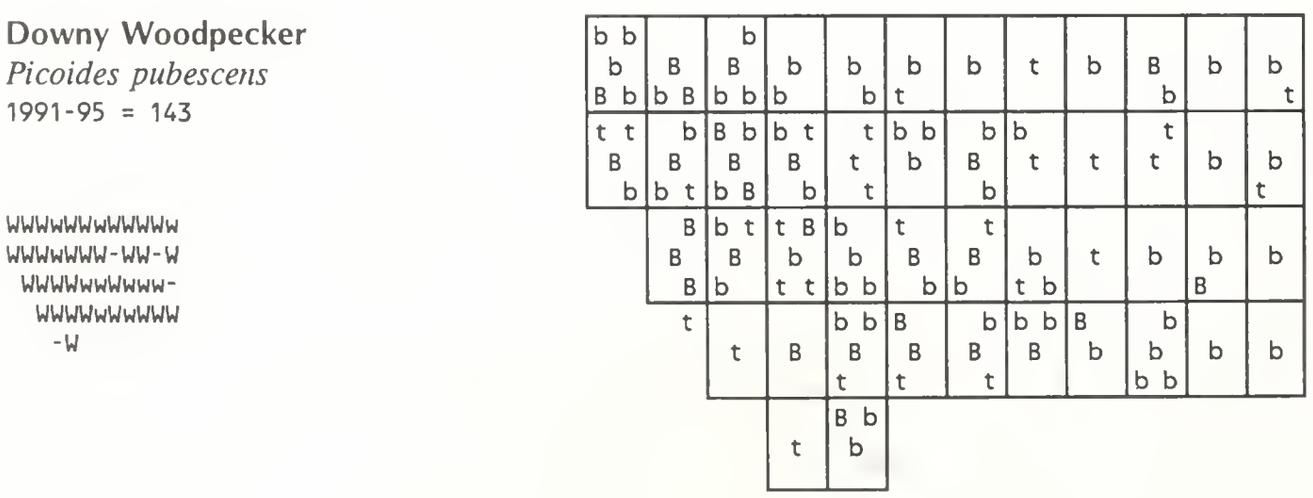
1991-95 = 30



Downy Woodpecker

Picoides pubescens

1991-95 = 143

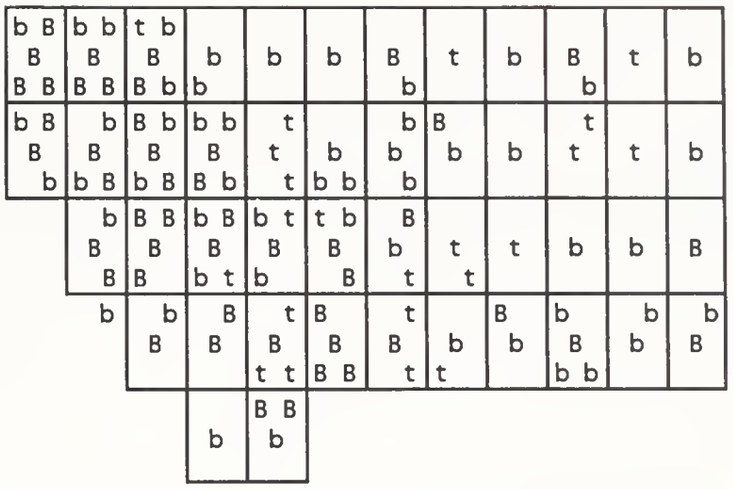


Hairy Woodpecker

Picoides villosus

1991-95 = 178

```
WWWWWWWWWW-W
WWWWWWW--WWW
 WWWW-WWWWW-
  WWWWWWWWWW
   -W
```



White-headed Woodpecker

Picoides albolarvatus

1991-95 = 1; 1991 - QLL 1B

n = 6

```
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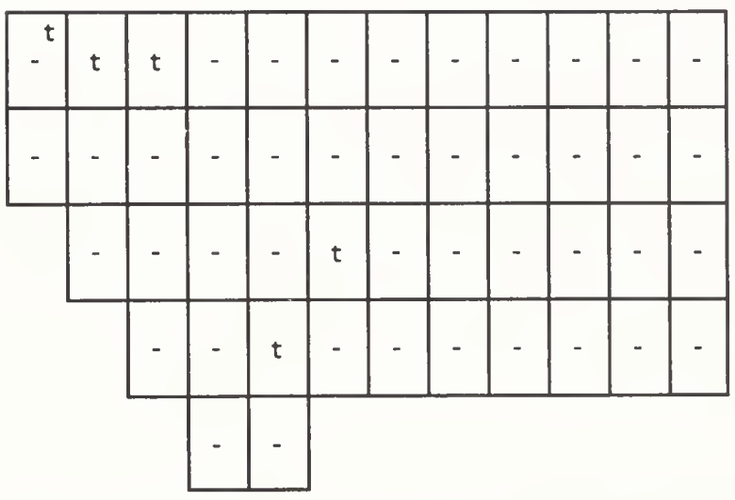
  ----------
   --
```

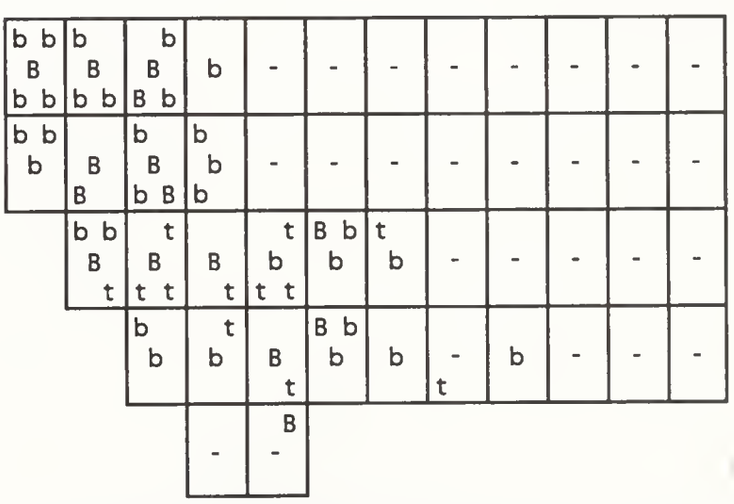


Three-toed Woodpecker

Picoides tridactylus

1991-95 = 61

```
WWW---------
WWW---------
 WW---------
  --W-------
   --
```



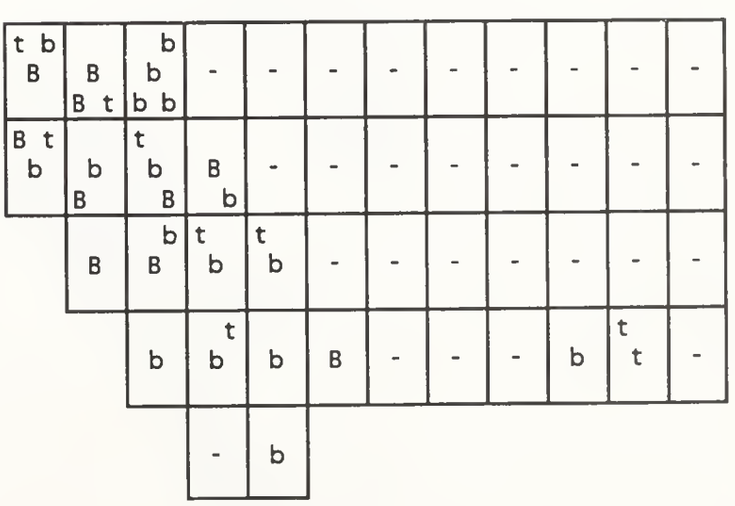
Black-backed Woodpecker

Picoides arcticus

1991-95 = 30

TES

```
WWW---------
W-----------
 -W-W-------
  ----------
   --
```

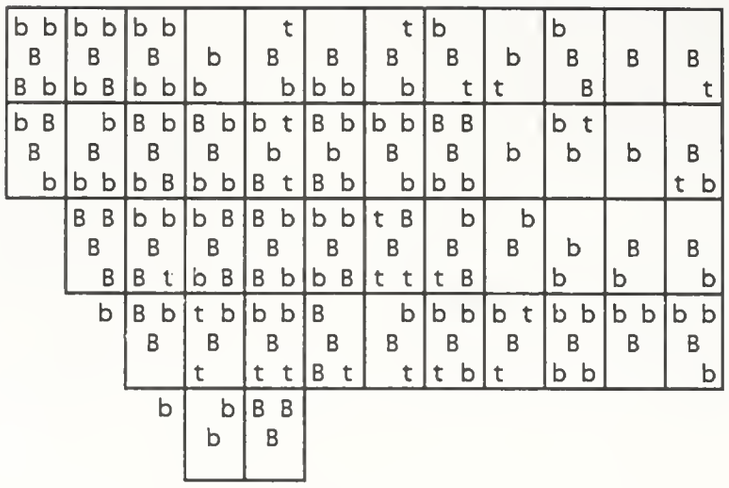


Northern Flicker

Colaptes auratus

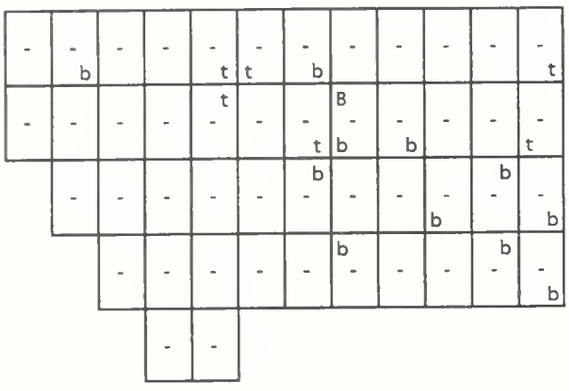
1991-95 = 362

```
WWWWWWWWWW-w
WWWWWWWW---w
 WWWWWWWWWWW
  WWWWWWWWWW
   w-
```



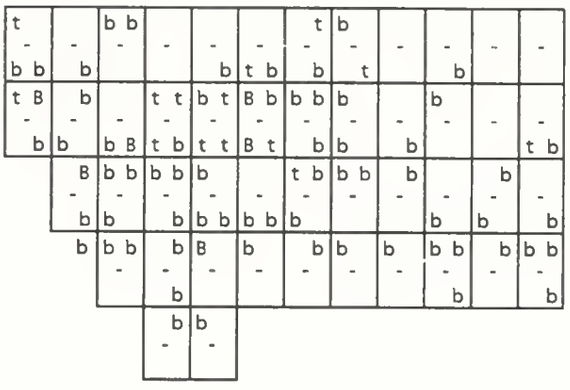
Yellow-shafted Flicker

Colaptes auratus auratus



Red-shafted Flicker

Colaptes auratus cafer

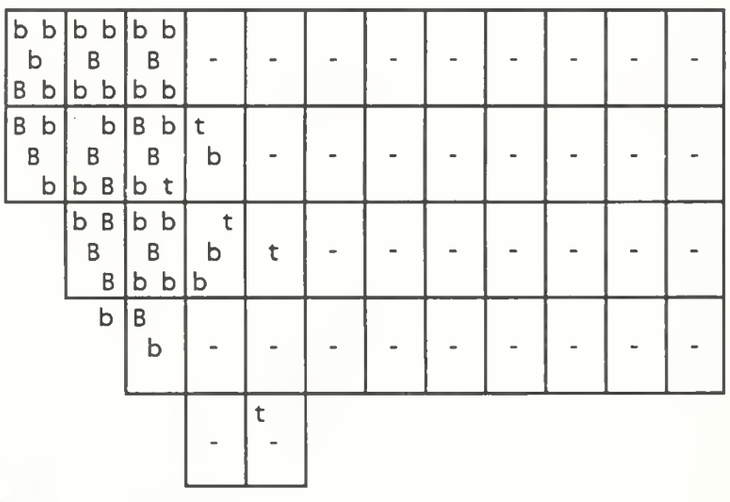


Pileated Woodpecker

Dryocopus pileatus

1991-95 = 99

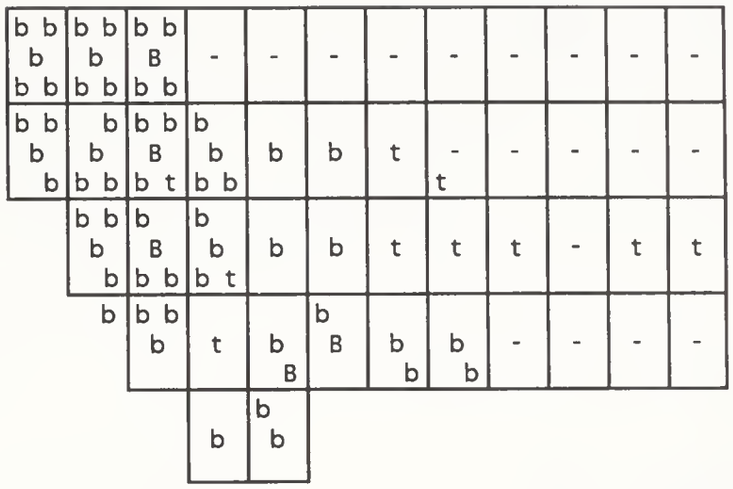
```
WWW---------
WWW---------
 WWW--------
  ----------
   --
```



Olive-sided Flycatcher

Contopus borealis

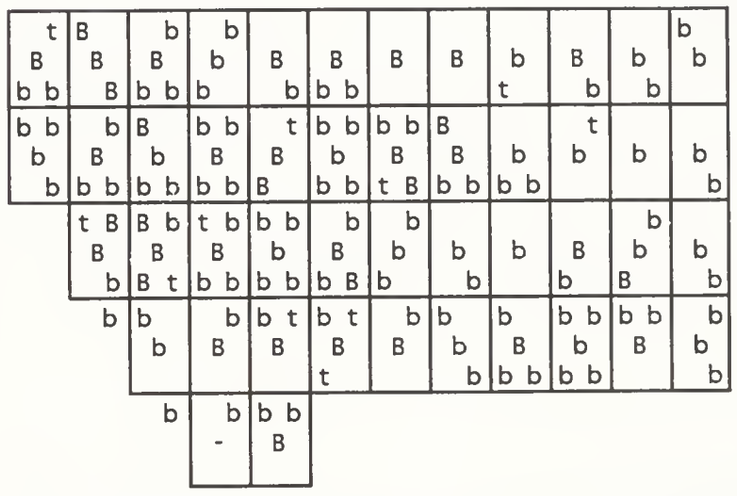
1991-95 = 67



Western Wood-Pewee

Contopus sordidulus

1991-95 = 165

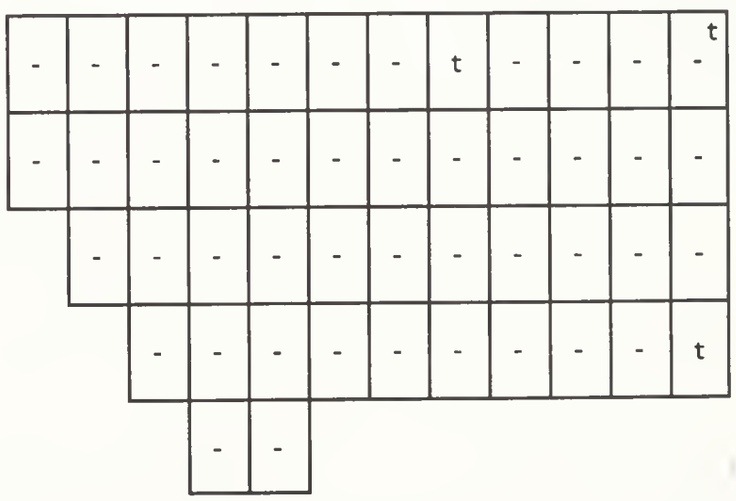


Eastern Wood-Pewee

Contopus virens

1991-95 = 1; 1995 - QLL 12B

n = 3

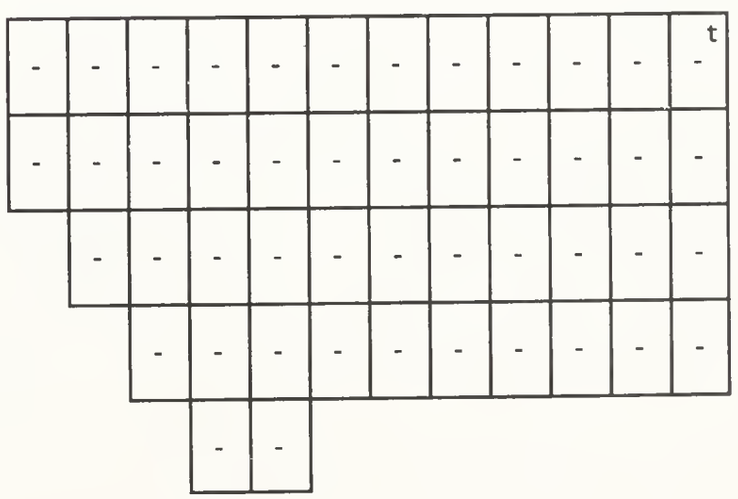


Yellow-bellied Flycatcher

Empidonax flaviventris

1991-95 = 1; 1995 - QLL 12B

n = 1



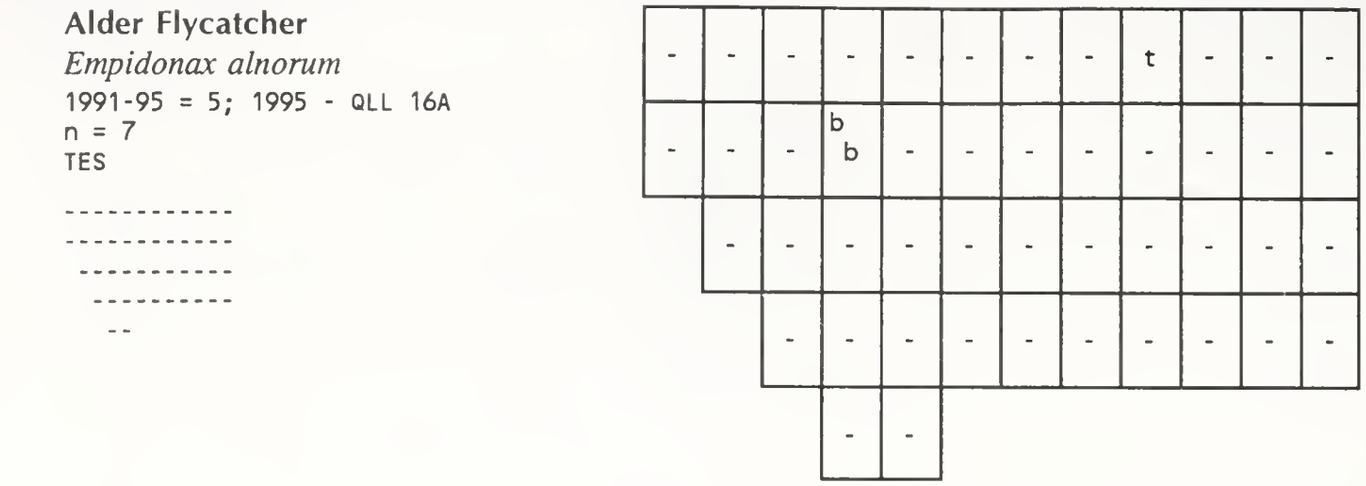
Alder Flycatcher

Empidonax alnorum

1991-95 = 5; 1995 - QLL 16A

n = 7

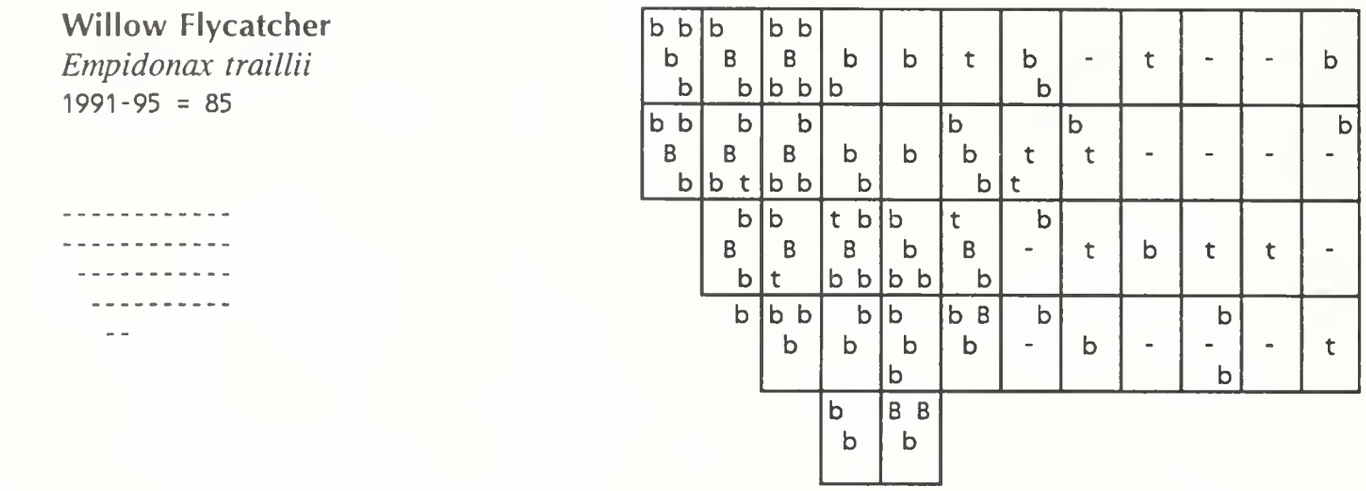
TES



Willow Flycatcher

Empidonax traillii

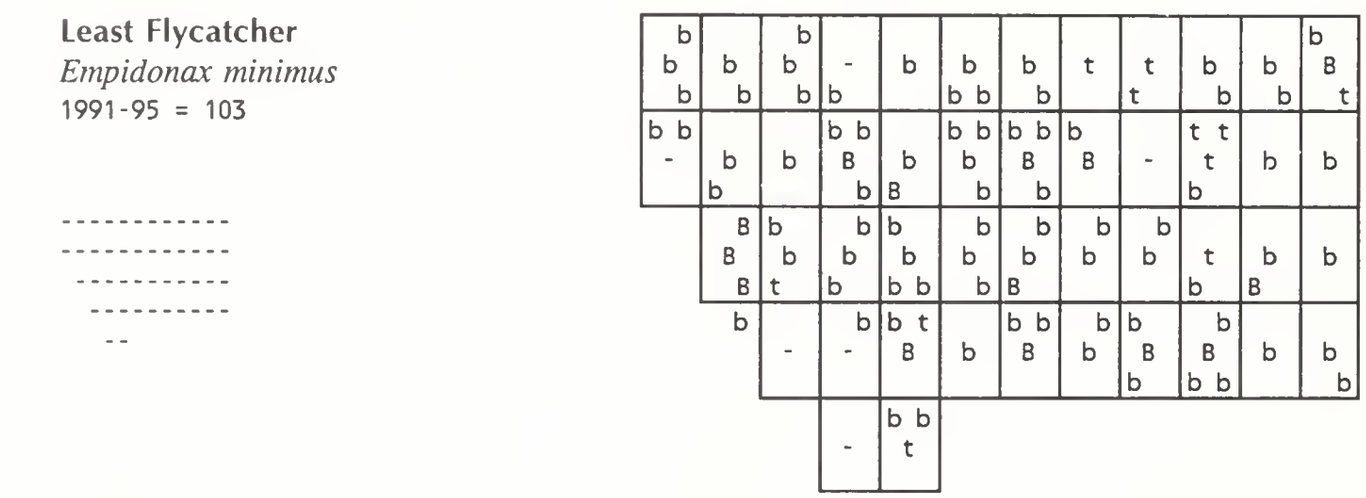
1991-95 = 85



Least Flycatcher

Empidonax minimus

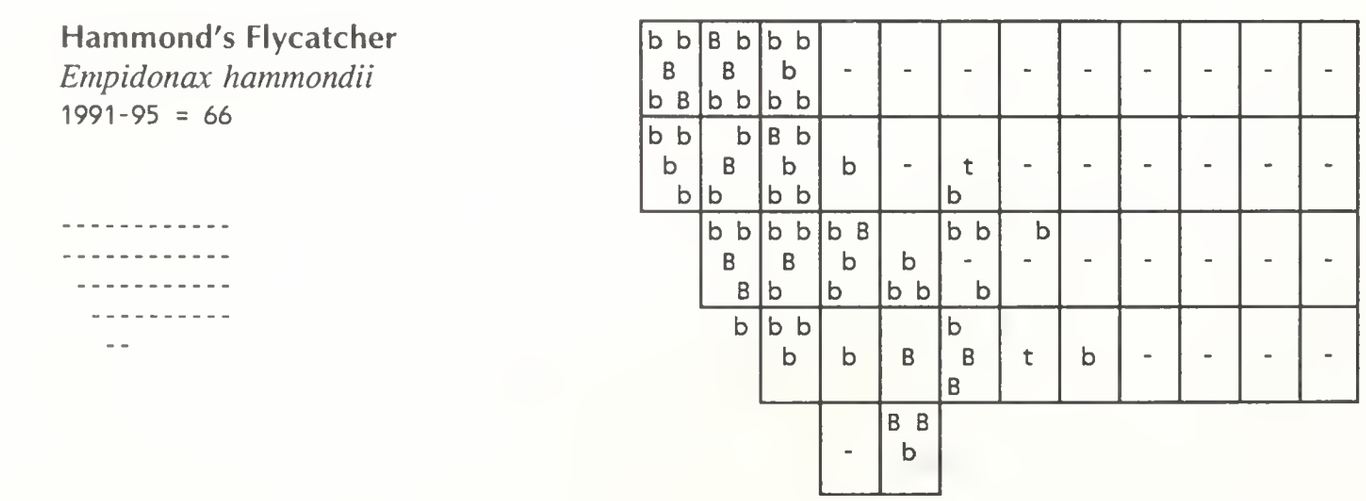
1991-95 = 103



Hammond's Flycatcher

Empidonax hammondii

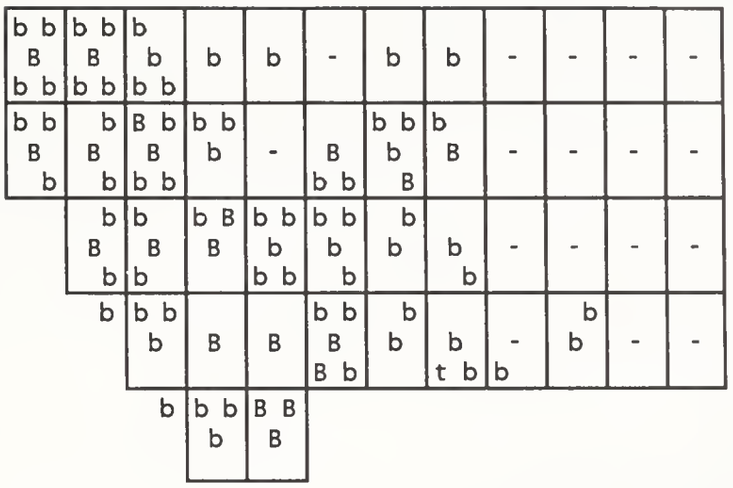
1991-95 = 66



Dusky Flycatcher

Empidonax oberholseri

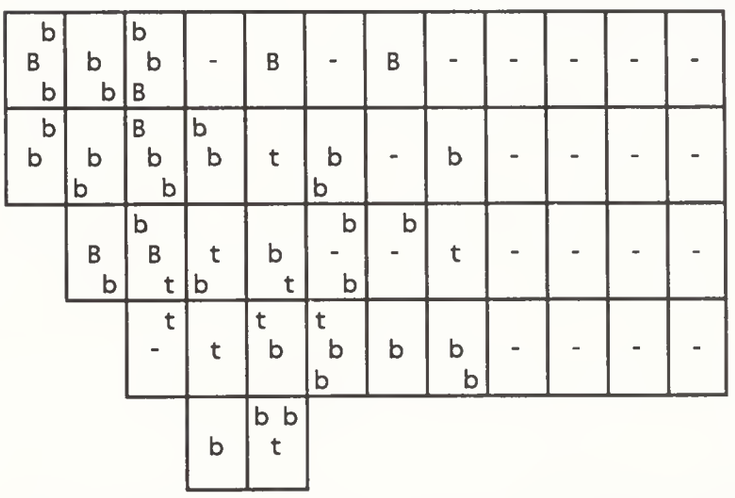
1991-95 = 102



Cordilleran Flycatcher

Empidonax occidentalis

1991-95 = 32

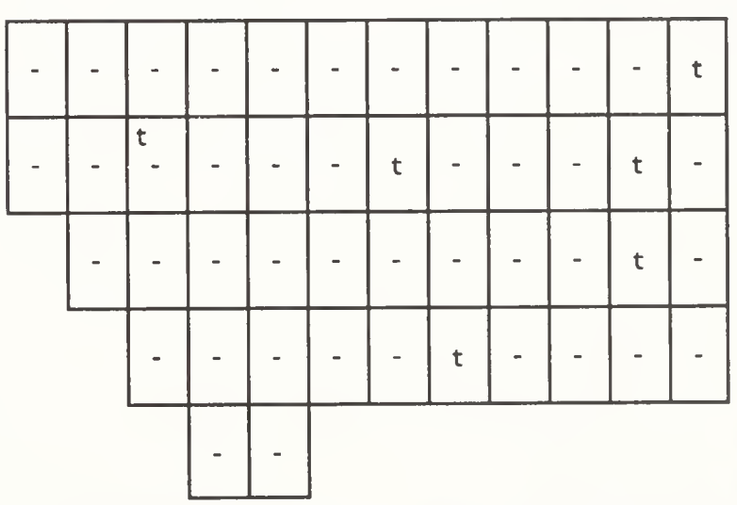


Eastern Phoebe

Sayornis phoebe

1991-95 = 1; 1994 - QLL 15A

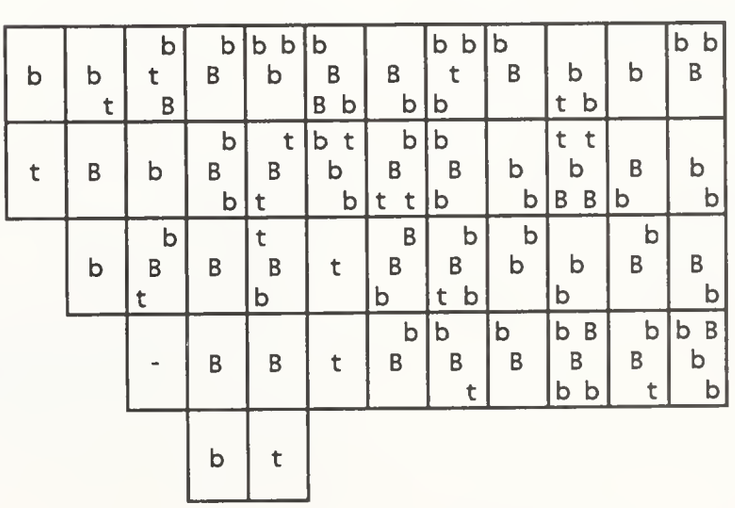
n = 6



Say's Phoebe

Sayornis saya

1991-95 = 91

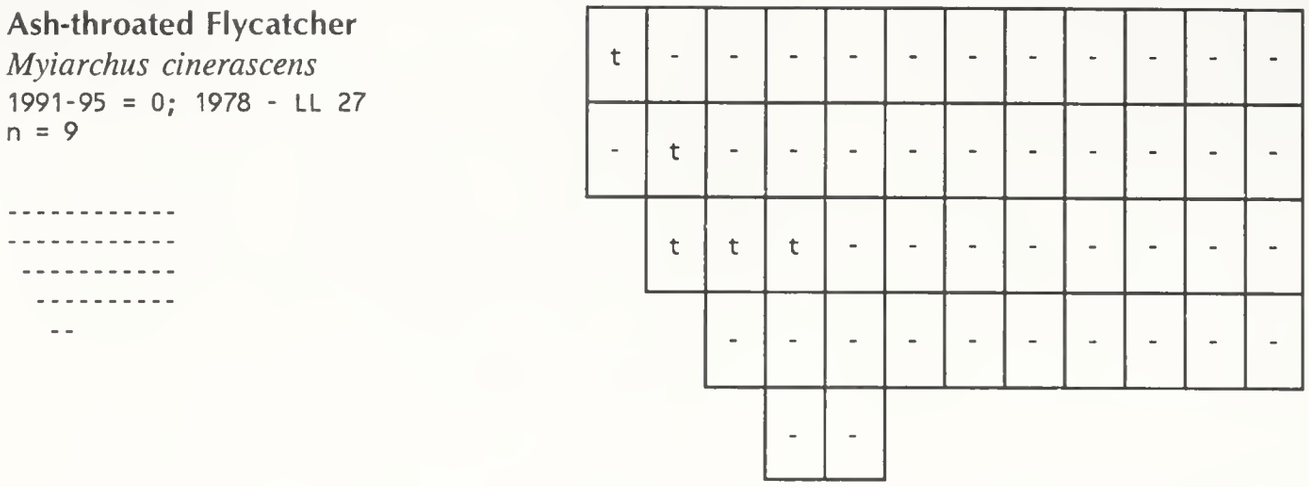


Ash-throated Flycatcher

Myiarchus cinerascens

1991-95 = 0; 1978 - LL 27

n = 9

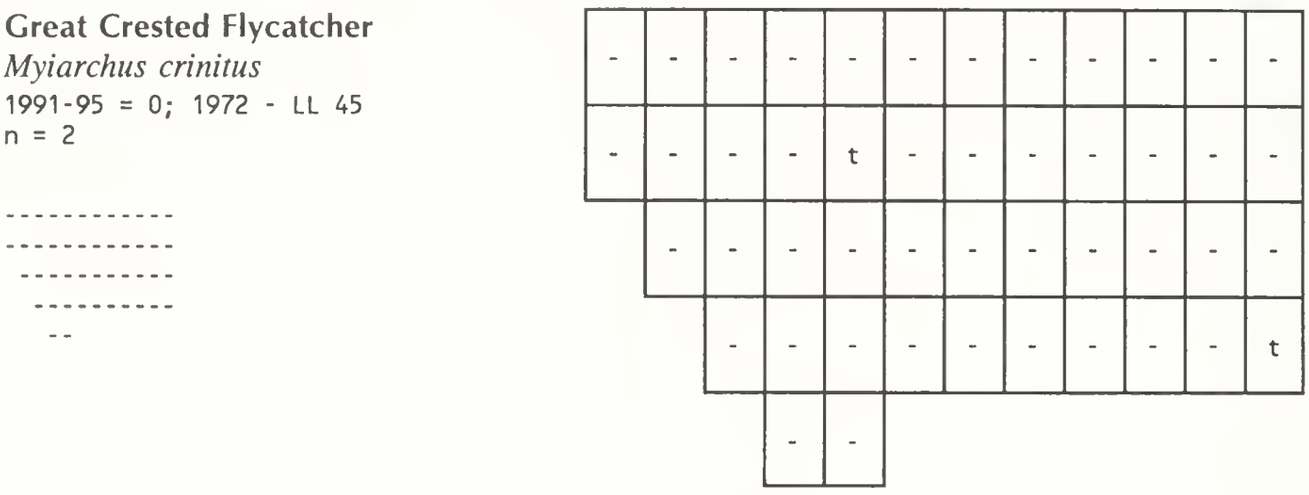


Great Crested Flycatcher

Myiarchus crinitus

1991-95 = 0; 1972 - LL 45

n = 2

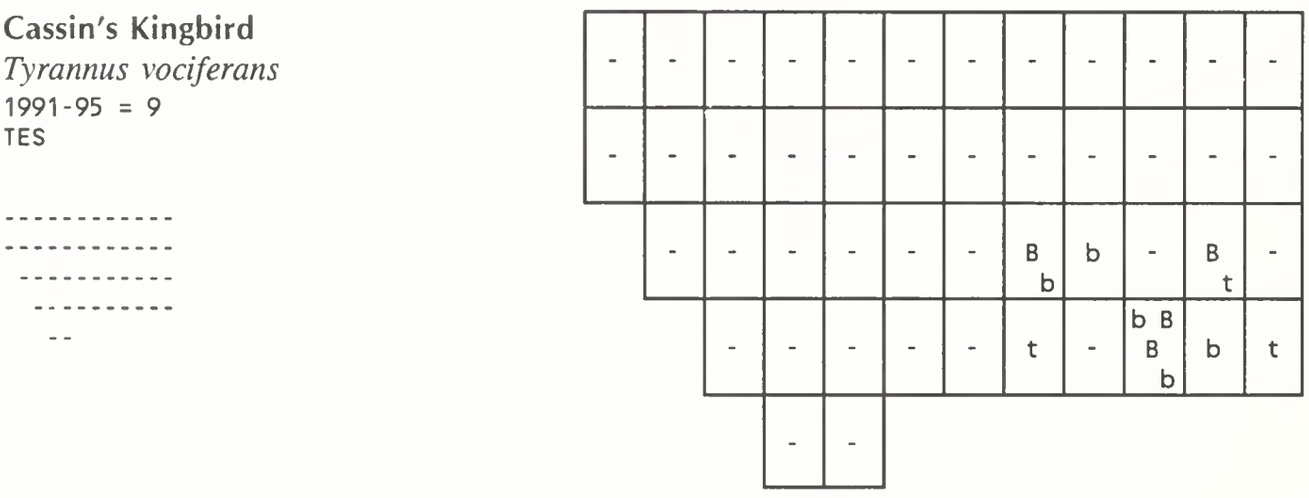


Cassin's Kingbird

Tyrannus vociferans

1991-95 = 9

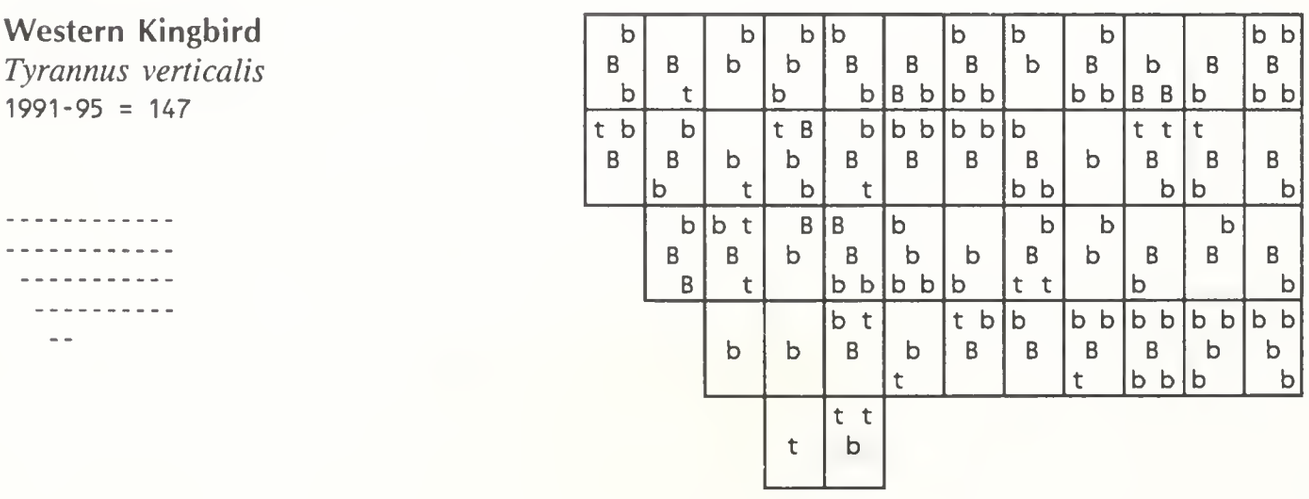
TES



Western Kingbird

Tyrannus verticalis

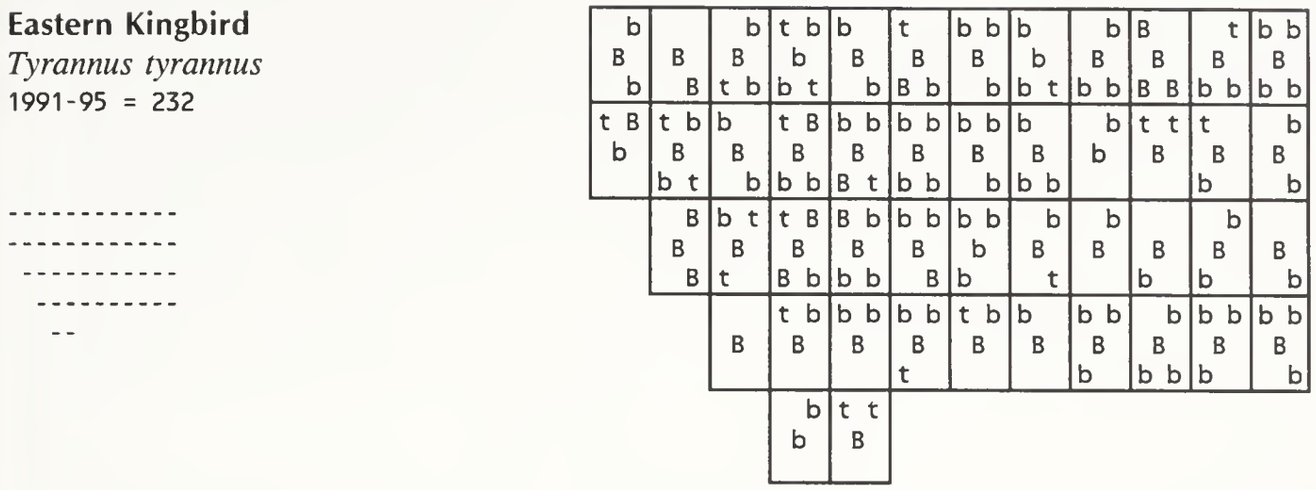
1991-95 = 147



Eastern Kingbird

Tyrannus tyrannus

1991-95 = 232

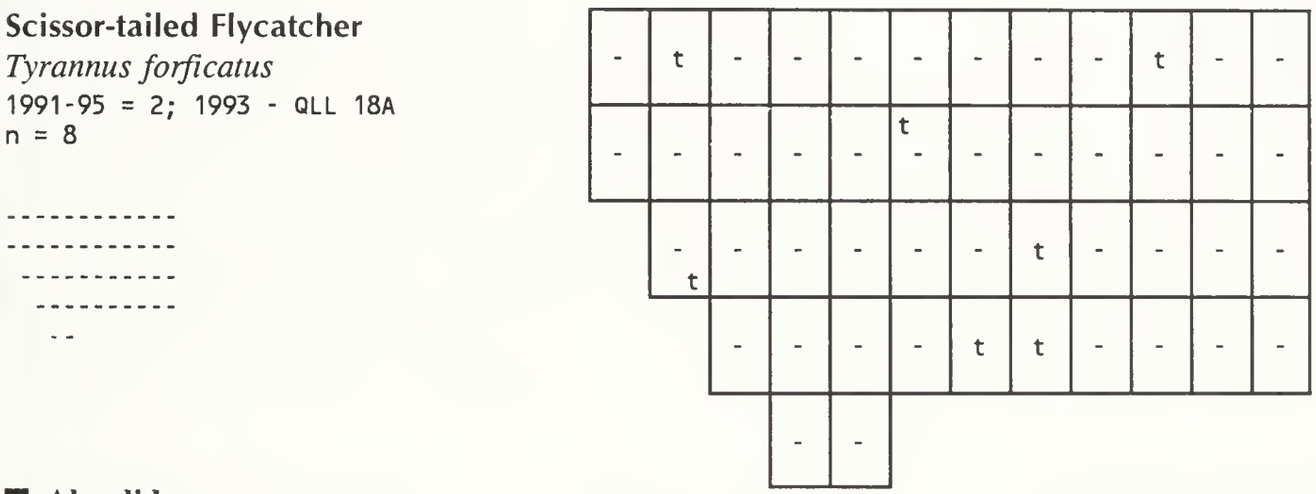


Scissor-tailed Flycatcher

Tyrannus forficatus

1991-95 = 2; 1993 - QLL 18A

n = 8

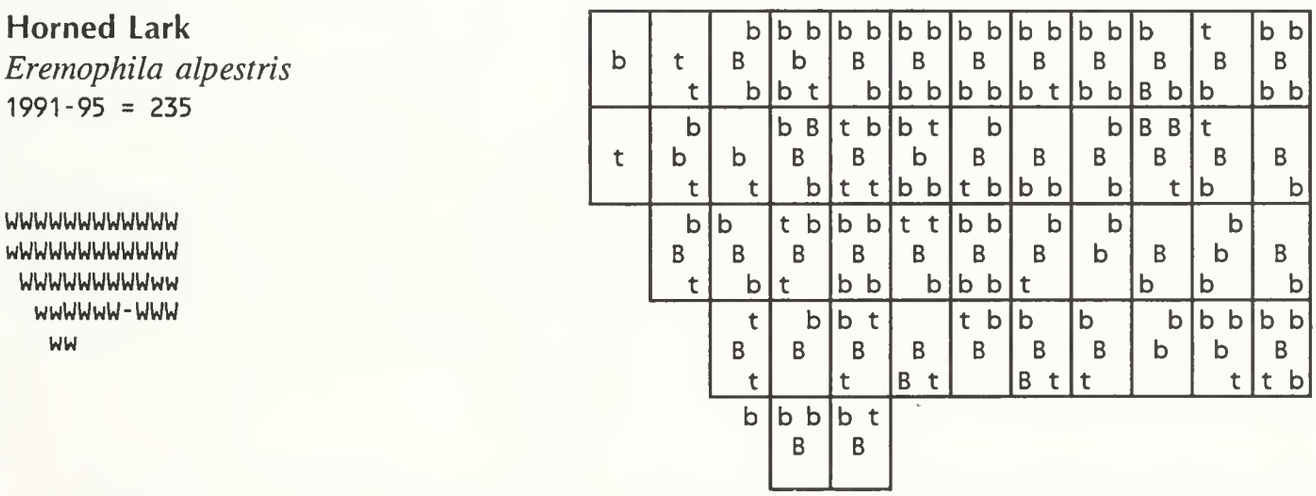


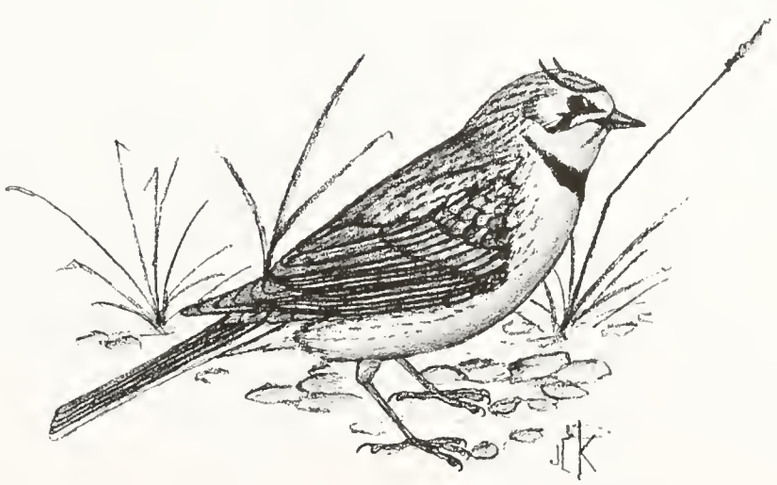
■ Alaudidae

Horned Lark

Eremophila alpestris

1991-95 = 235





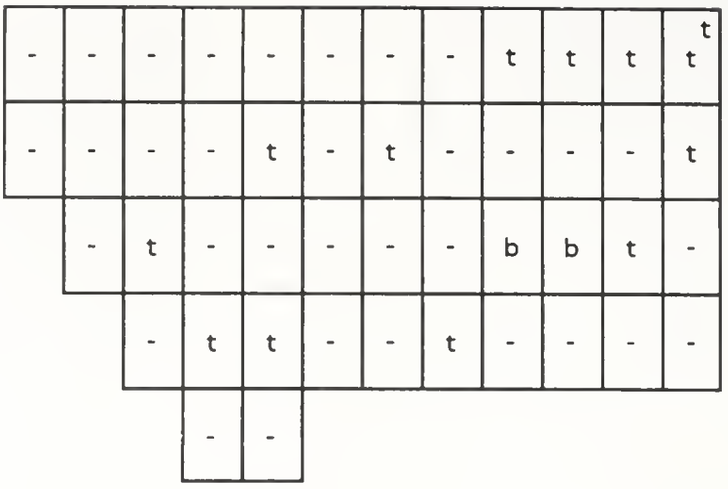
■ Hirundinidae

Purple Martin

Progne subis

1991-95 = 1; 1995 - QLL 12B

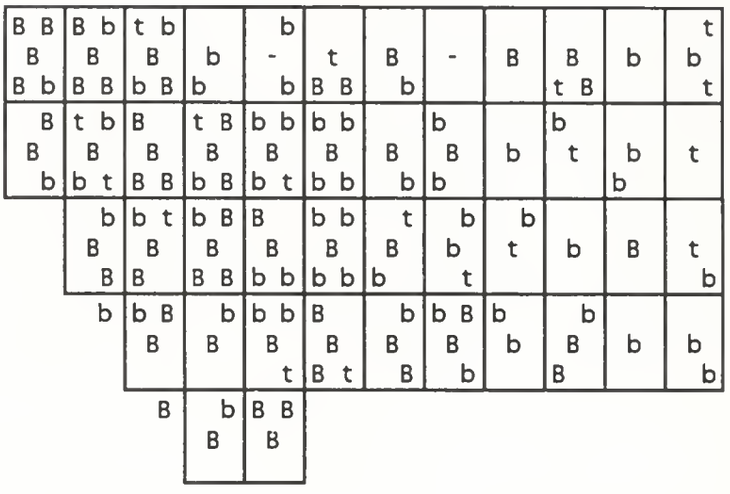
n = 19



Tree Swallow

Tachycineta bicolor

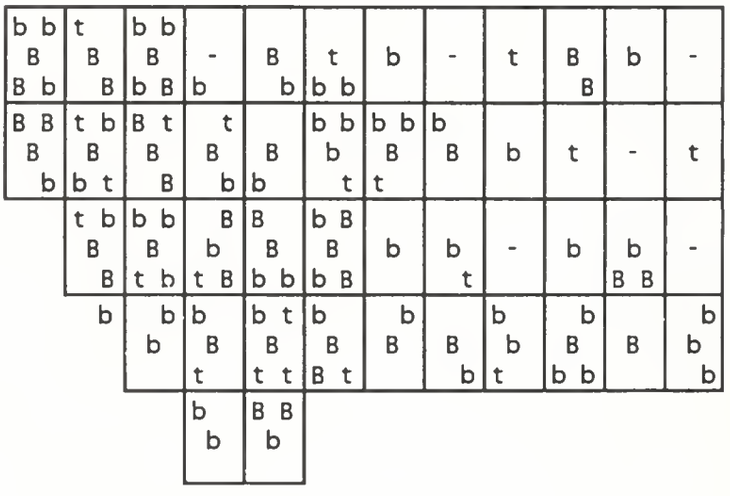
1991-95 = 205



Violet-green Swallow

Tachycineta thalassina

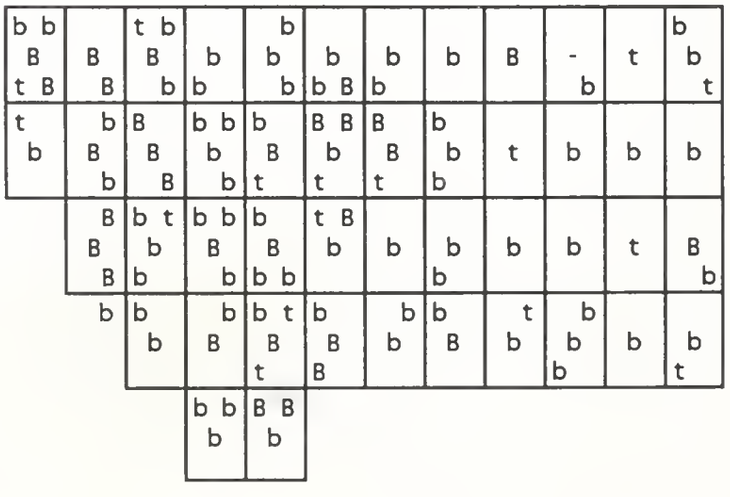
1991-95 = 146



Northern Rough-winged Swallow

Stelgidopteryx serripennis

1991-95 = 106



Bank Swallow

Riparia riparia

1991-95 = 89

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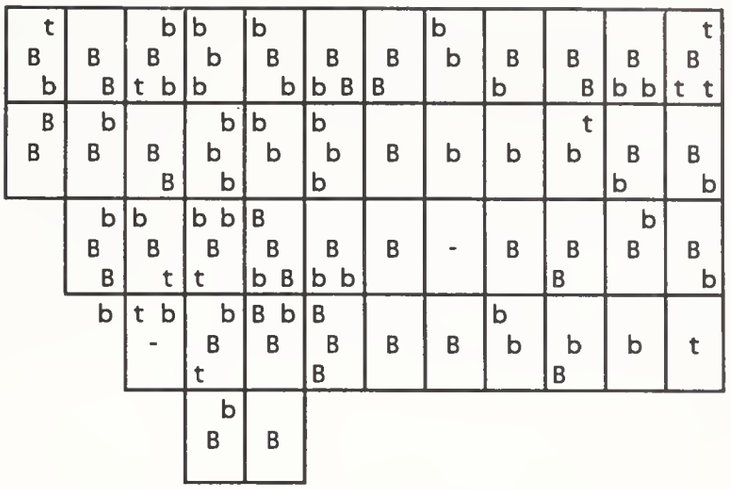

Cliff Swallow

Hirundo pyrrhonota

1991-95 = 228

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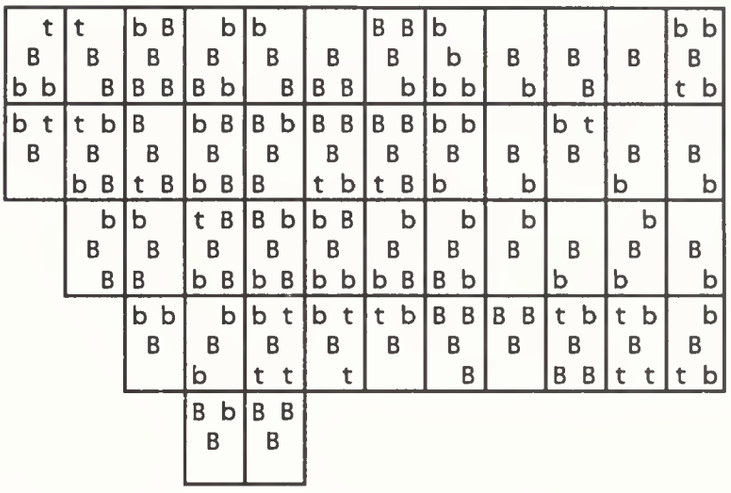

Barn Swallow

Hirundo rustica

1991-95 = 268

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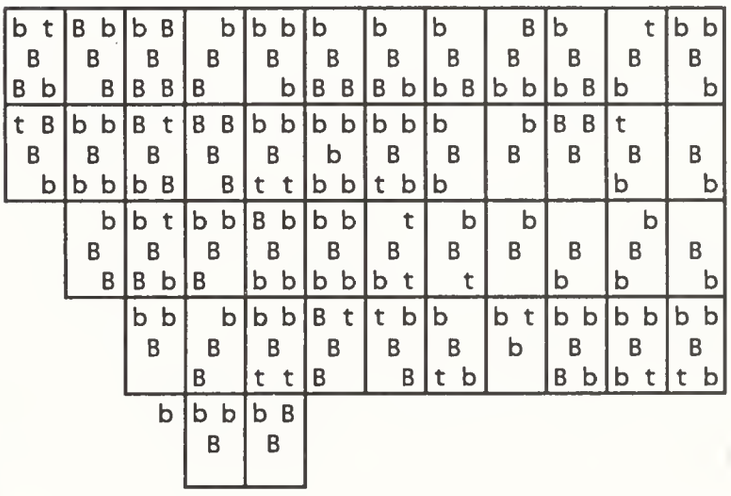
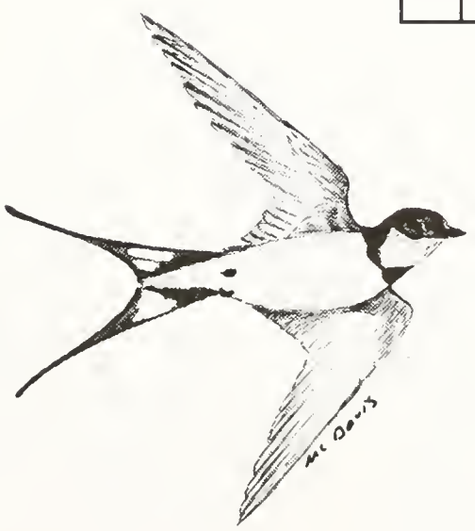
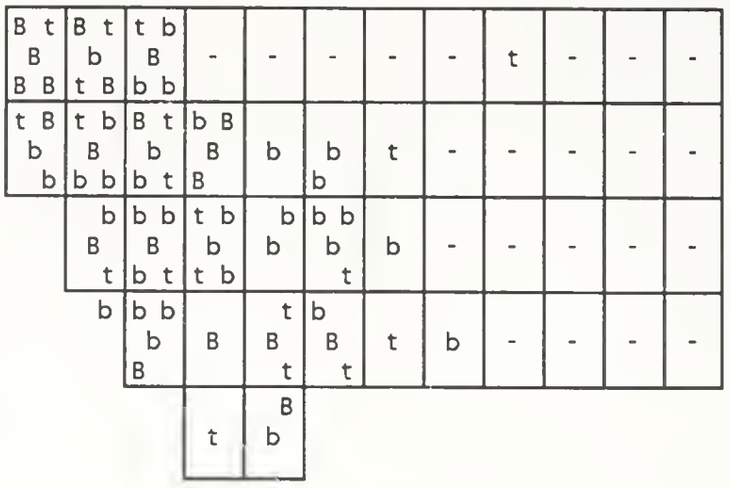




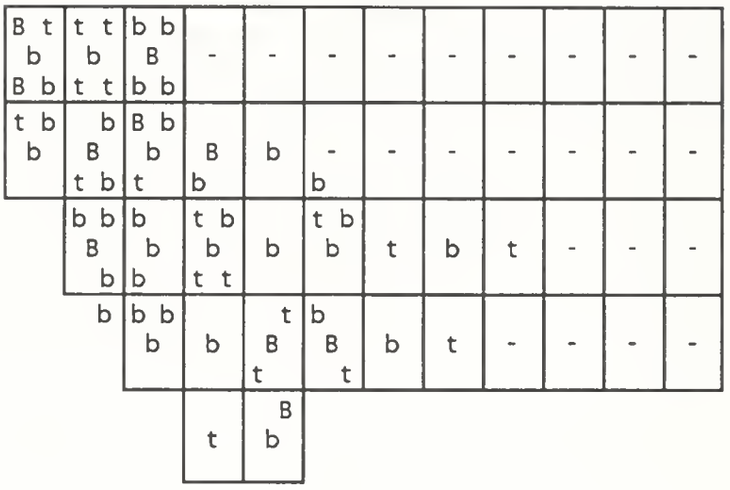
Gray Jay
Perisoreus canadensis
1991-95 = 101

```
WWW---------
WWW--W------
 WWW--------
  WWWW-W----
   -W
```



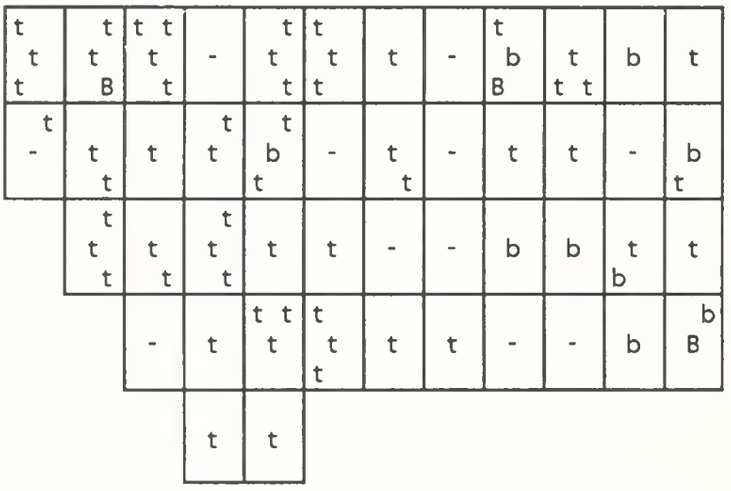
Steller's Jay
Cyanocitta stelleri
1991-95 = 95

```
WWW---------
WWW---------
 WWWW-------
  -WWWWW----
   -W
```



Blue Jay
Cyanocitta cristata
1991-95 = 56

```
WWW-www-WW--
-WWWw-W---W
 W-WW---www-
  -WWW-W----
   --
```



Pinyon Jay
Gymnorhinus cyanocephalus
1991-95 = 29

```
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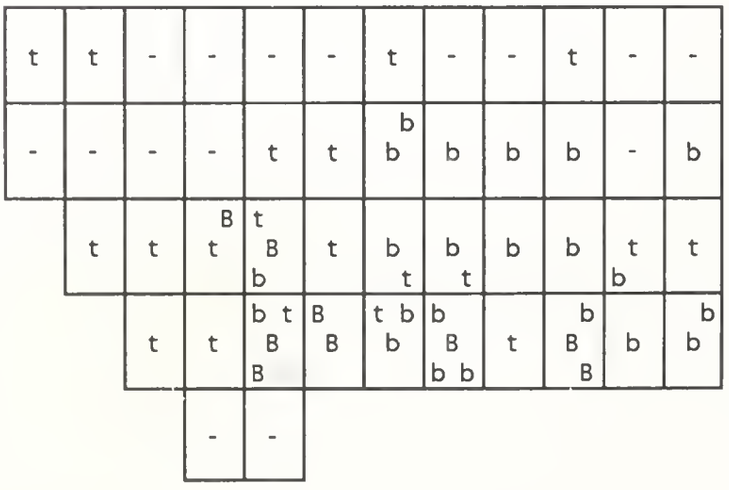
------WW----
 WWWW-WWWWWW
  WWWW-WWWWW
   --
```

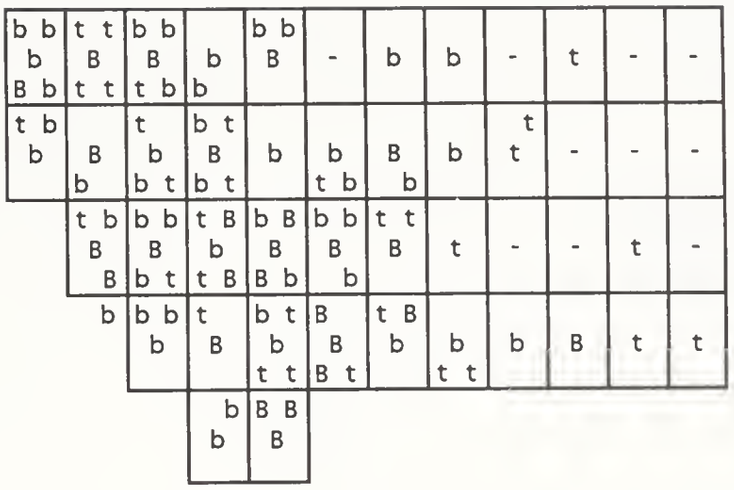


Clark's Nutcracker

Nucifraga columbiana

1991-95 = 174

```
WWWWW-WW----
WWWW-WWWW---
 WWWW-W---W-
  WWWWWW---W
   WW
```

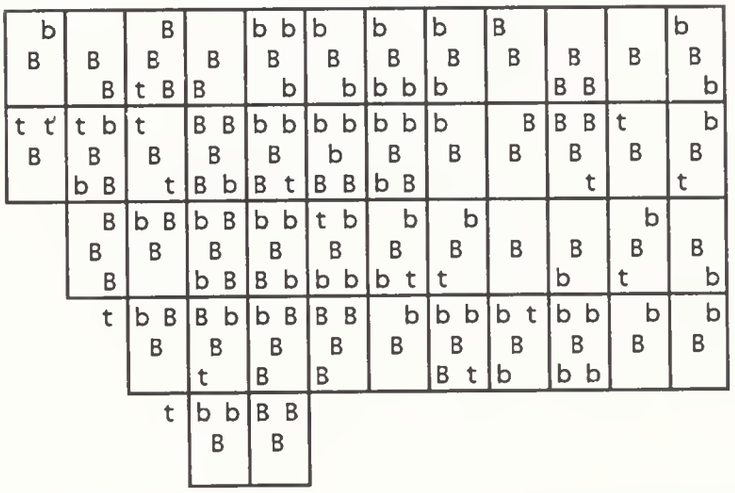


Black-billed Magpie

Pica pica

1991-95 = 279

```
WWWWWWWWWWWW
WWWWWWWWWWWW
 WWWWWWWWWWW
  WWWWWWWWWW
   WW
```

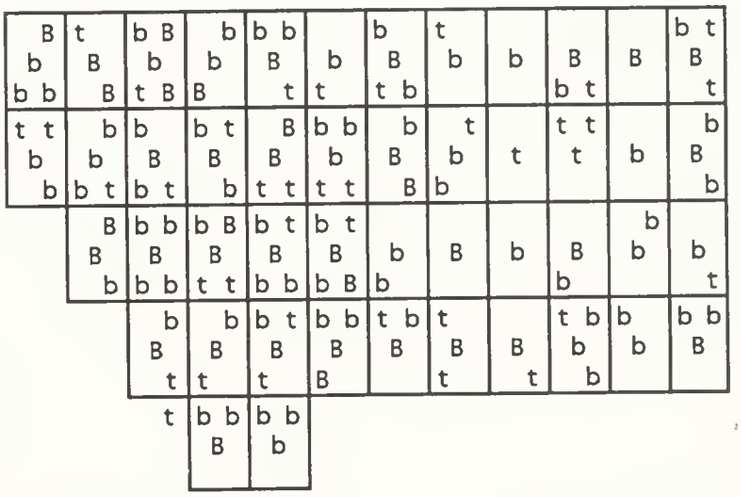


American Crow

Corvus brachyrhynchos

1991-95 = 196

```
WW---WW-W---
WWWWWWWW----
 WWWW-WWWWWW
  -WWWWWWW-W
   -W
```

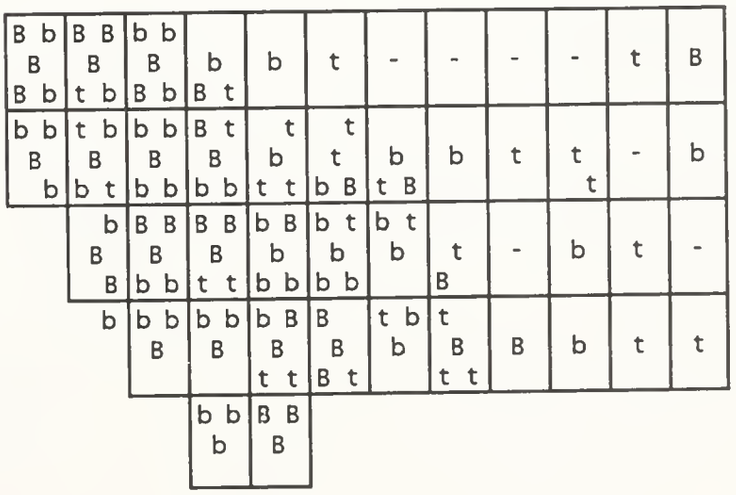


Common Raven

Corvus corax

1991-95 = 271

```
WWWW--------
WWWWWWW-----
 WWWWWW-----
  WWWWWWW---
   WW
```

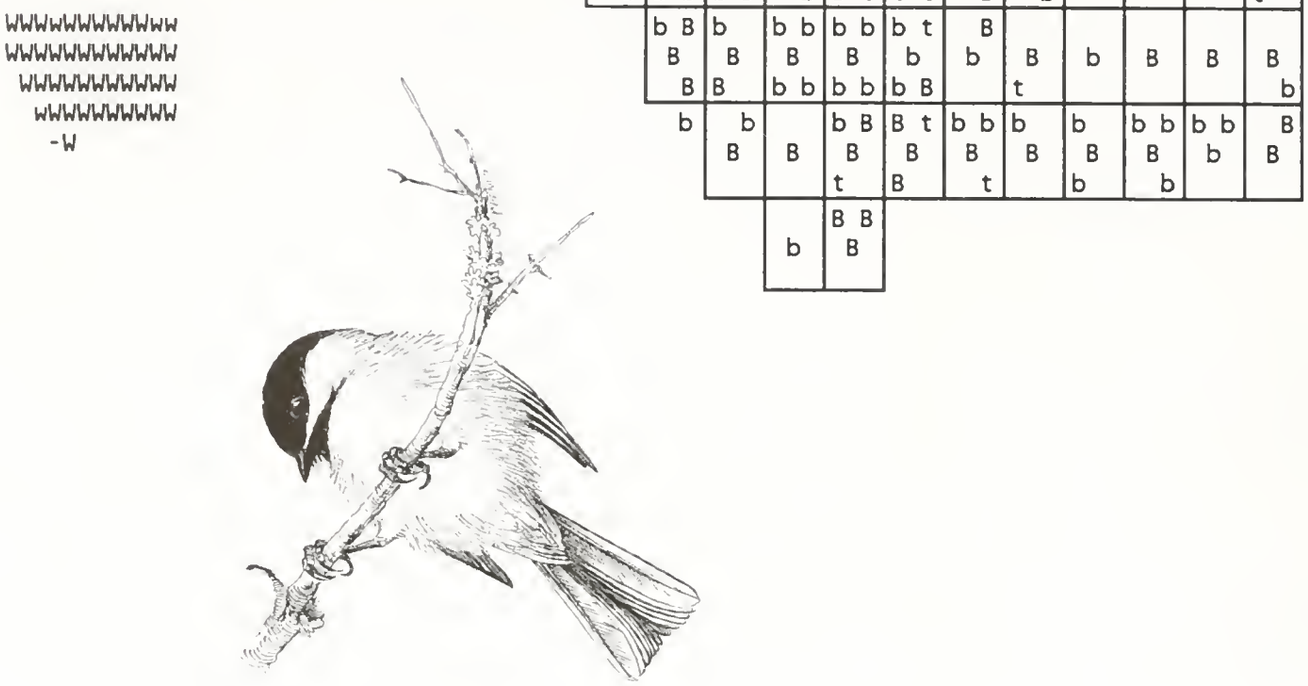


■ Paridae

Black-capped Chickadee

Parus atricapillus

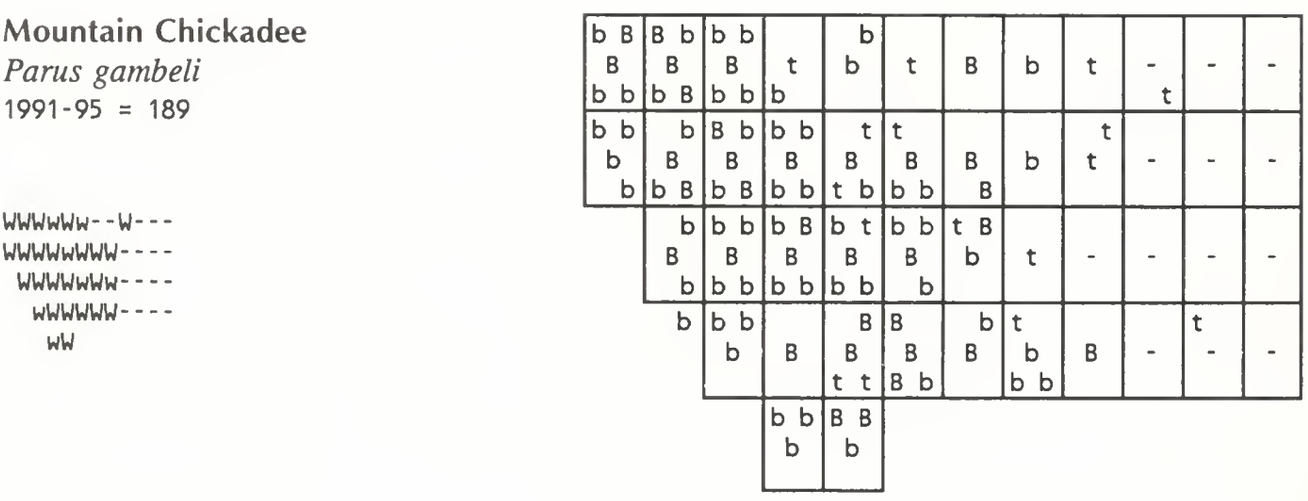
1991-95 = 239



Mountain Chickadee

Parus gambeli

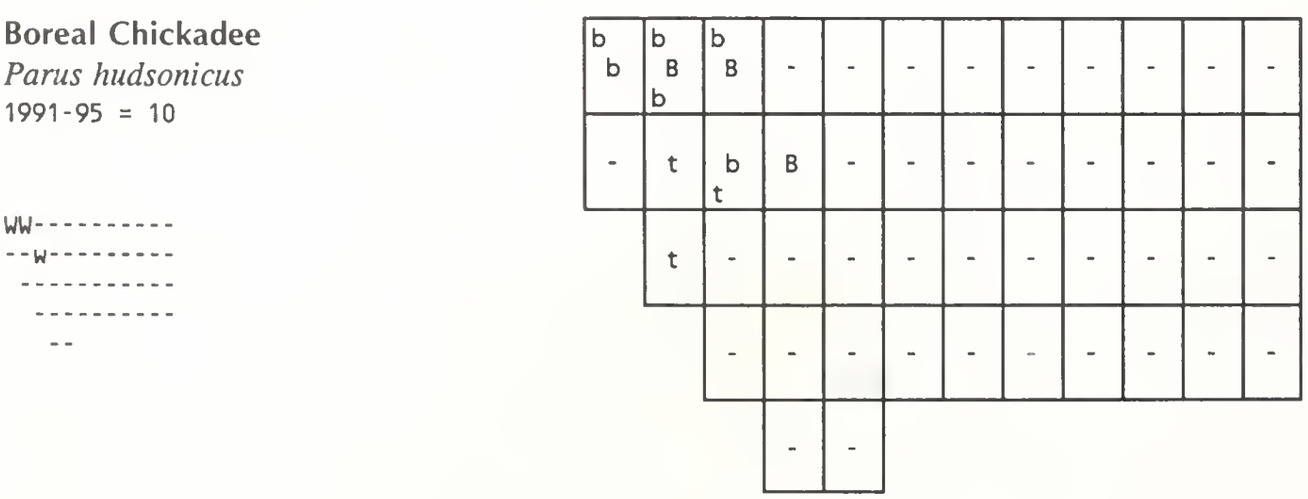
1991-95 = 189



Boreal Chickadee

Parus hudsonicus

1991-95 = 10

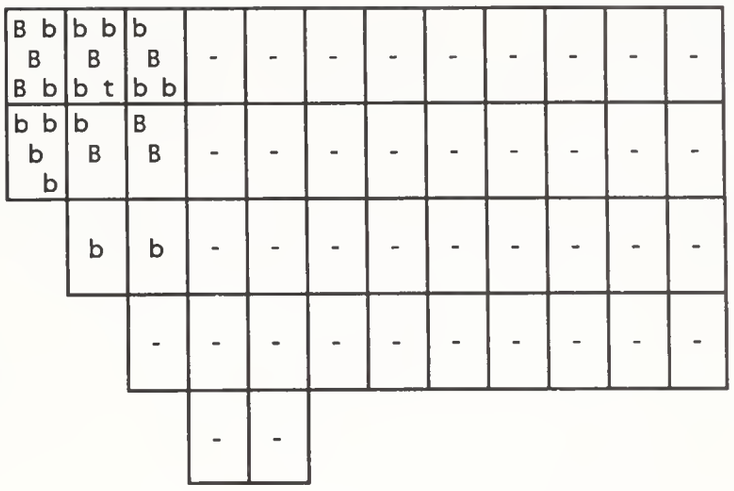


Chestnut-backed Chickadee

Parus rufescens

1991-95 = 40

```
WWW---------
WWW---------
 WW---------
  ----------
   --
```



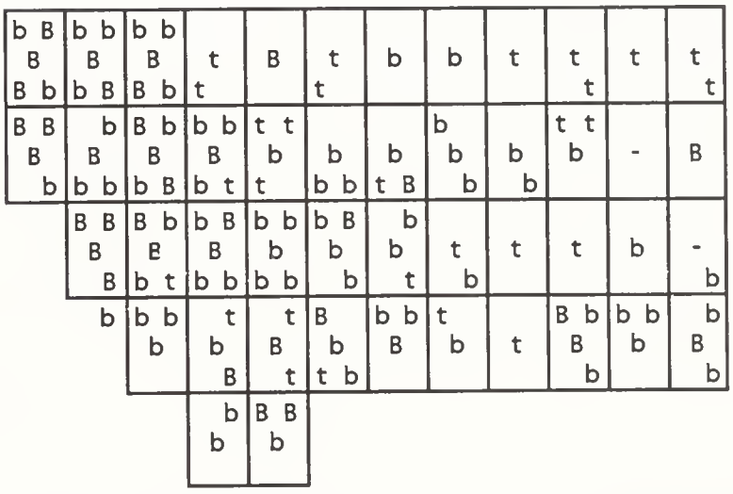
■ Sittidae

Red-breasted Nuthatch

Sitta canadensis

1991-95 = 231

```
WWWW----WW--
WWWW-WWW---W
 WWWWWWWW-WW-
  -WWWWWWWW-W
   WW
```

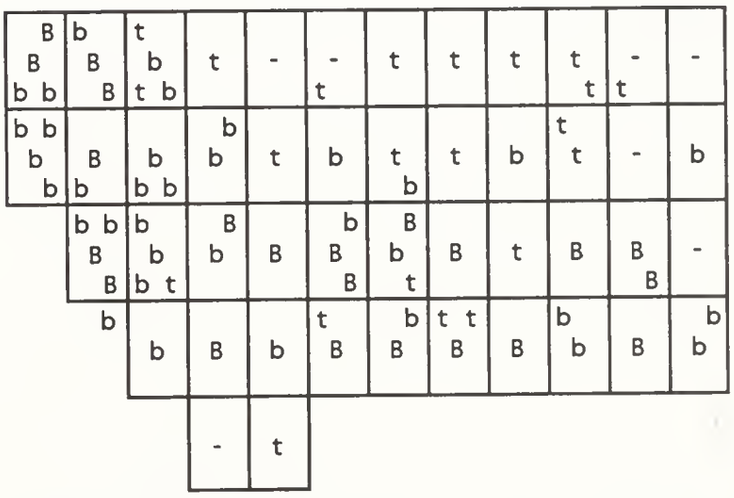


White-breasted Nuthatch

Sitta carolinensis

1991-95 = 69

```
WWWW---W-W--
WWW-WWWW---W
 WWWW-W---W-
  --WWWWWW--
   -W
```

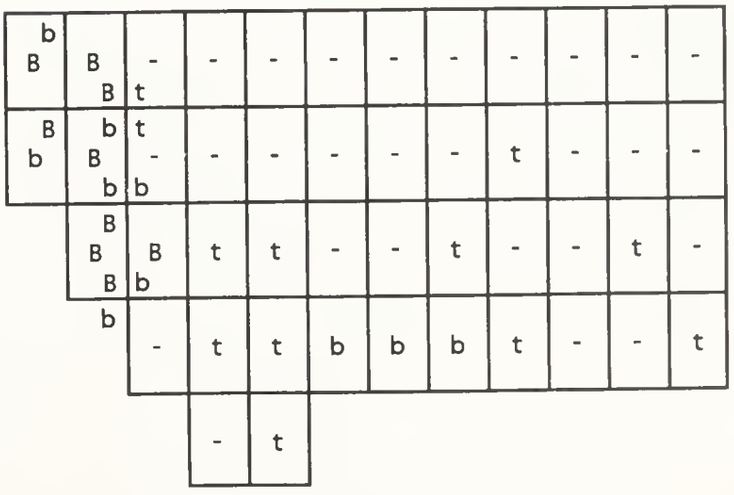


Pygmy Nuthatch

Sitta pygmaea

1991-95 = 30

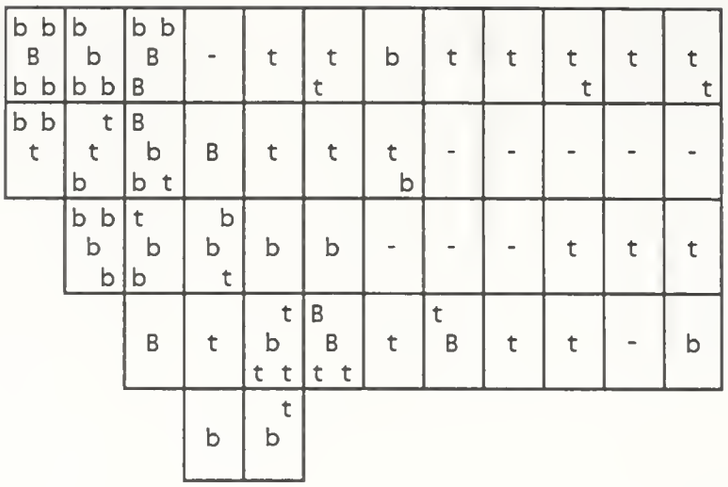
```
WW----------
Ww------W---
 WWWW-------
  -W---WW---
   --
```



■ Certhiidae

Brown Creeper
Certhia americana
1991-95 = 73

```
WWW---------
WWWWWWW-----
 WWWW-W--W--
  -WWWWW----
   --
```



■ Troglodytidae

Rock Wren
Salpinctes obsoletus
1991-95 = 116

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 W----------
  ----------
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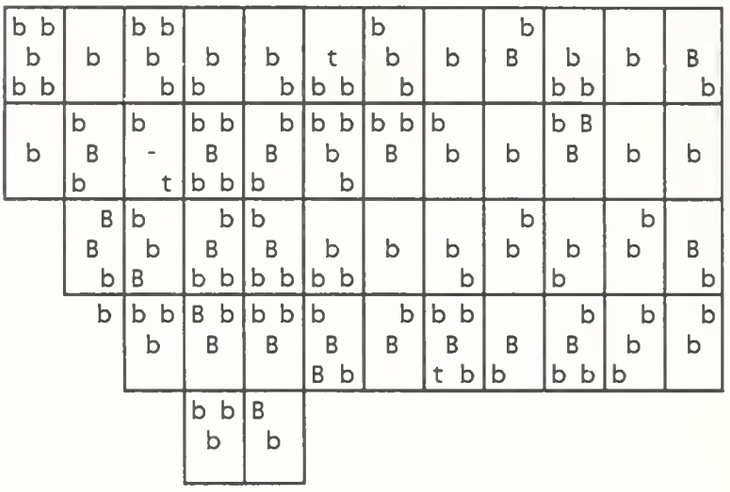
```



Canyon Wren
Catherpes mexicanus
1991-95 = 11

```
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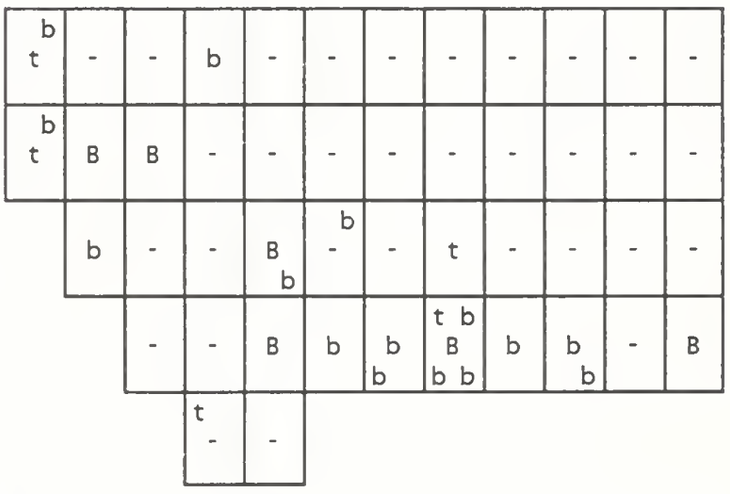
-WW---------
 ---W-------
  --W-W-----
   --
```



Bewick's Wren
Thryomanes bewickii
1991-95 = 0; 1973 - QLL 15C
n = 2

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  ----------
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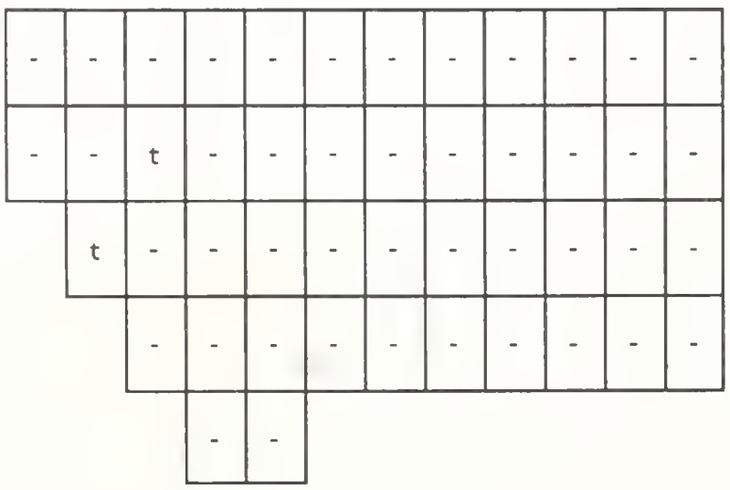
```



House Wren

Troglodytes aedon

1991-95 = 206

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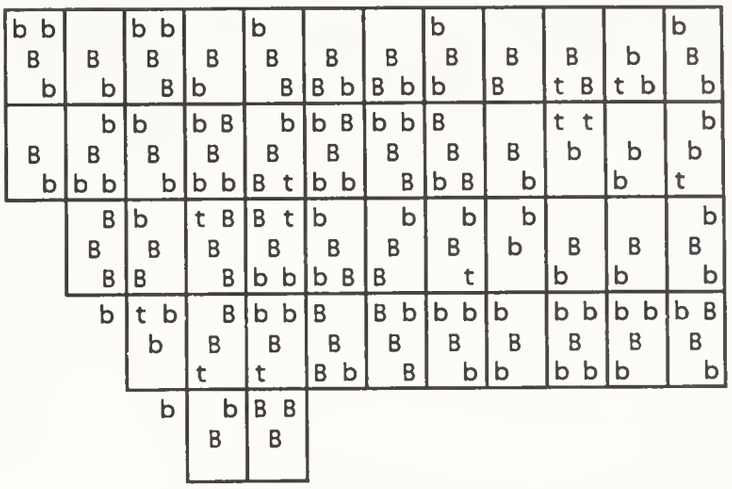
 W---------
  ----------
   --
```

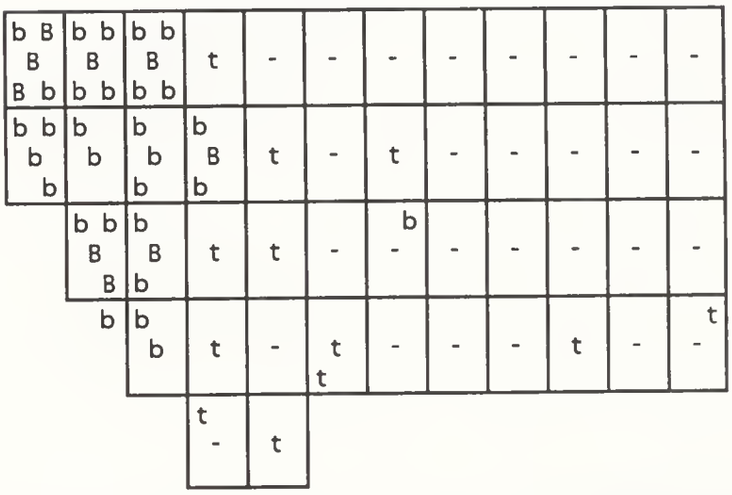


Winter Wren

Troglodytes troglodytes

1991-95 = 60

```
WW---------
Ww---------
 WW--------
  ---w------
   --
```



Sedge Wren

Cistothorus platensis

1991-95 = 0; 1981 - LL 12

n = 6

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----------
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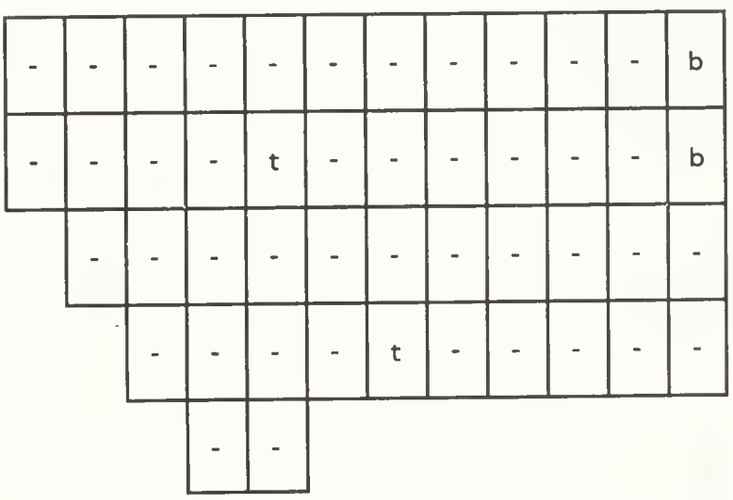
  ----------
   --
```

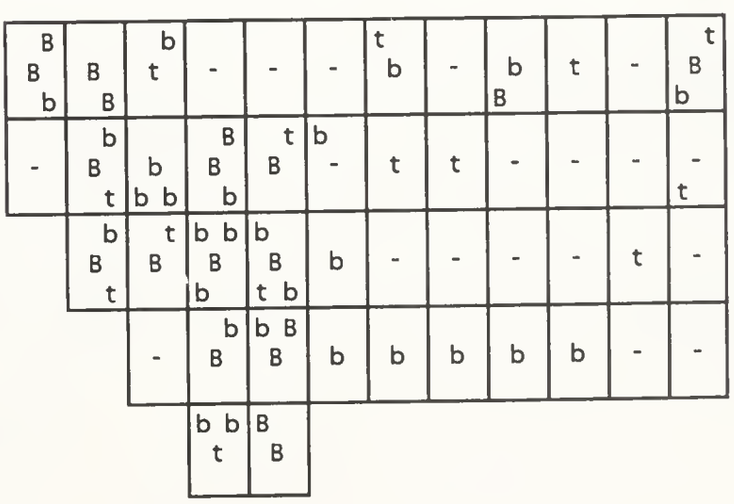


Marsh Wren

Cistothorus palustris

1991-95 = 57

```
-w------w---
-W----------
 w--W-----w-
  --W--w----
   --
```



■ Cinclidae

American Dipper

Cinclus mexicanus

1991-95 = 106

```
WWW---------
WW-Ww--w----
 WWWW-------
  wwWWWW----
   ww
```

■ Muscicapidae

Golden-crowned Kinglet

Regulus satrapa

1991-95 = 104

```
WW-w----w---
WWWw--------
 WWWW-w-----
  --Wwww----
    --
```

Ruby-crowned Kinglet

Regulus calendula

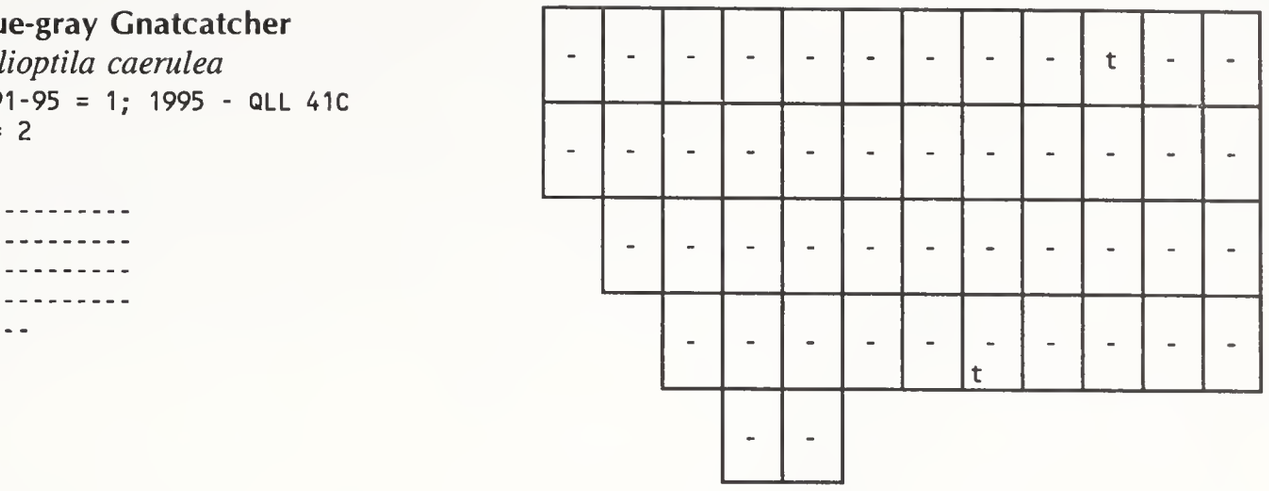
1991-95 = 156

```
Ww------w---
-w----------
 w----------
  --w-------
    --
```

Blue-gray Gnatcatcher

Polioptila caerulea

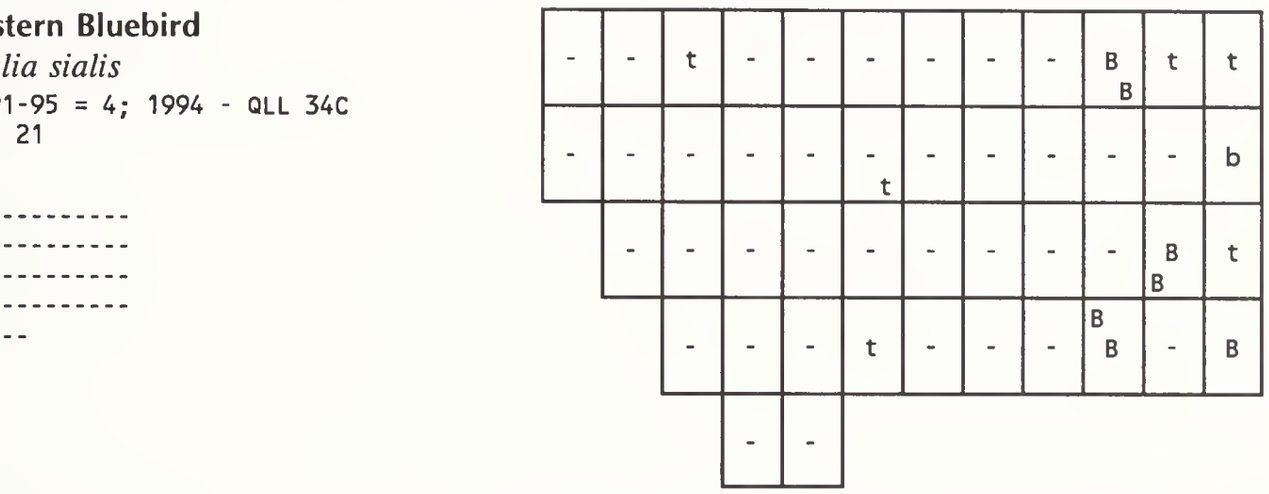
1991-95 = 1; 1995 - QLL 41C
n = 2
SI



Eastern Bluebird

Sialia sialis

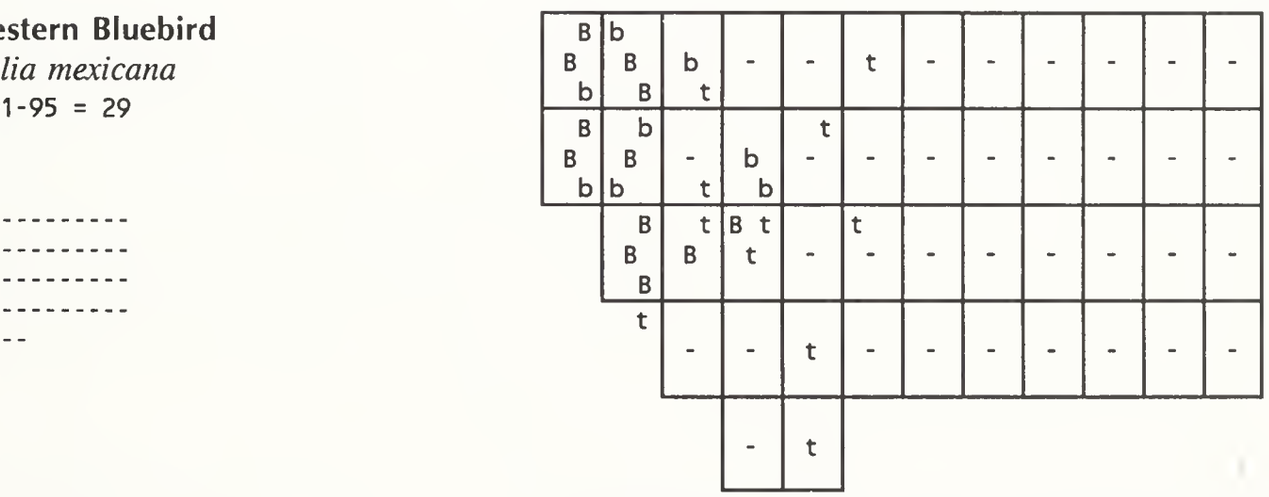
1991-95 = 4; 1994 - QLL 34C
n = 21



Western Bluebird

Sialia mexicana

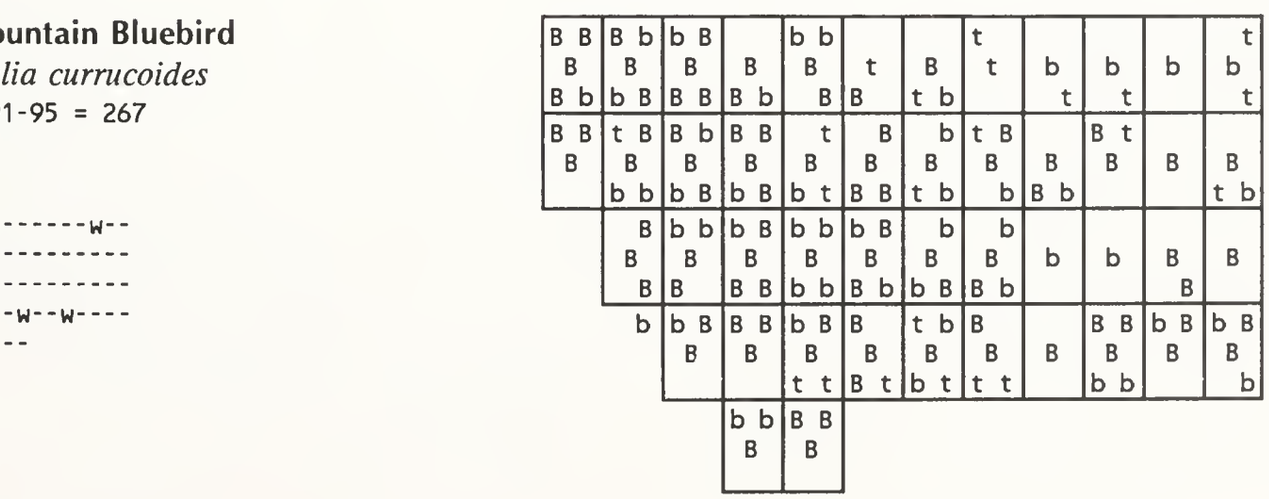
1991-95 = 29



Mountain Bluebird

Sialia currucoides

1991-95 = 267



Townsend's Solitaire

Myadestes townsendi

1991-95 = 150

```
WWW-w---WW--
WWWWW-WW-w-W
 WWWWWW----W
  WWWWWWWW--
   W-
```

Veery

Catharus fuscescens

1991-95 = 78

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  ----------
   --
```

Gray-cheeked Thrush

Catharus minimus

1991-95 = 2; 1995 - QLL 12B

n = 18

```
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------------
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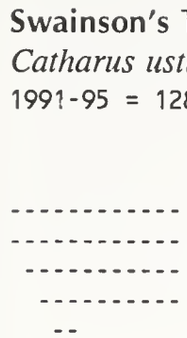
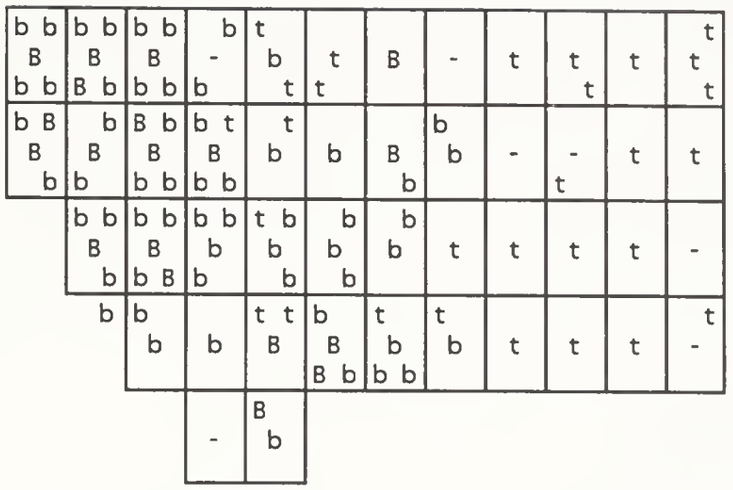
  ----------
   --
```

Swainson's Thrush

Catharus ustulatus

1991-95 = 128

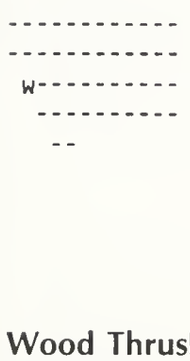


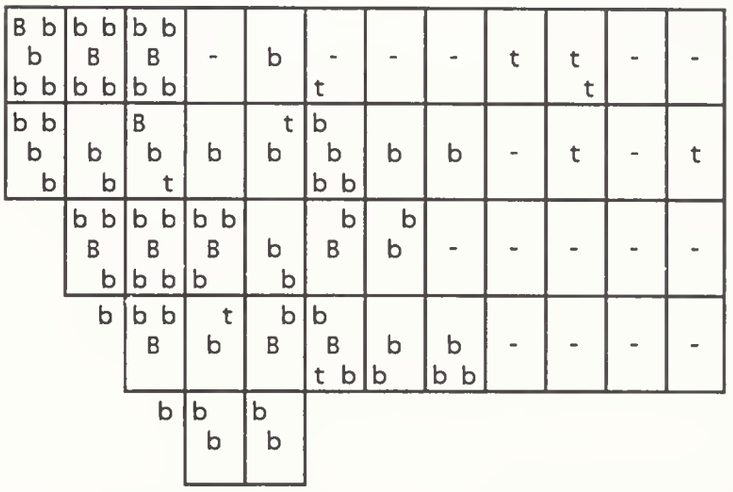


Hermit Thrush

Catharus guttatus

1991-95 = 79



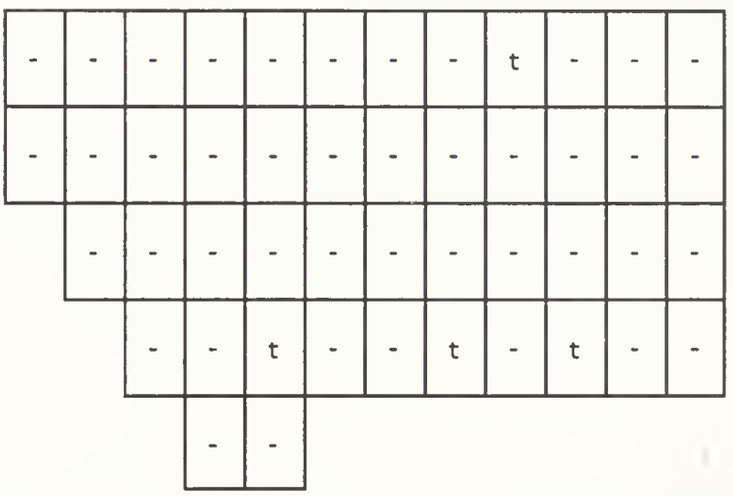


Wood Thrush

Hylocichla mustelina

1991-95 = 0; 1981 - LL 43

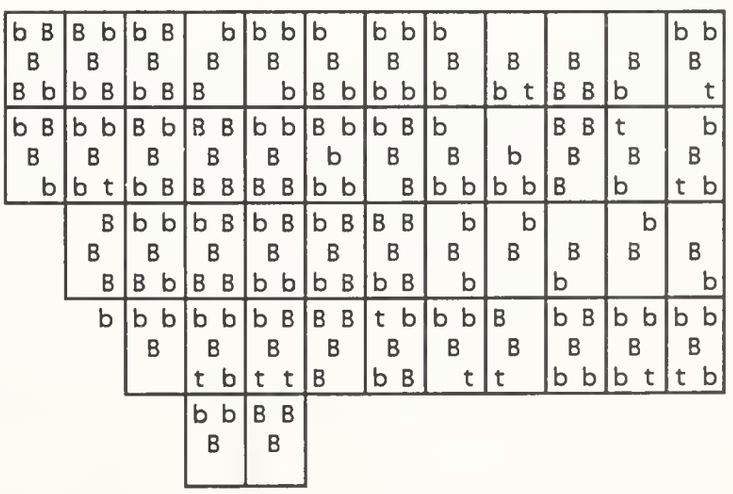
n = 5



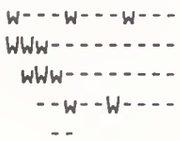
American Robin

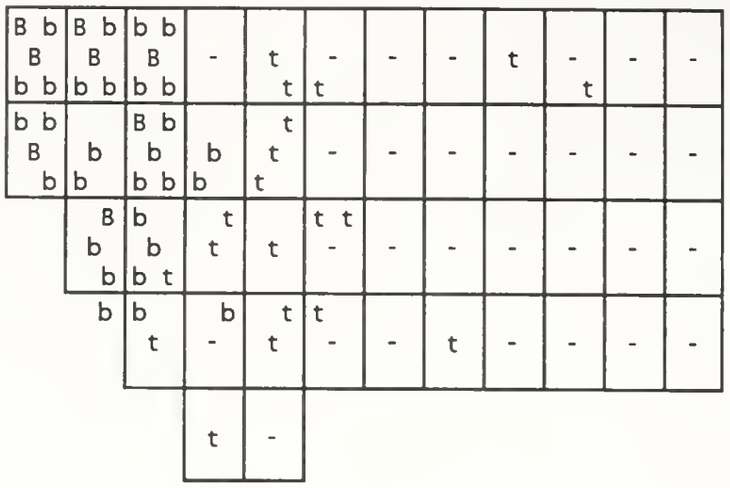
Turdus migratorius

1991-95 = 395



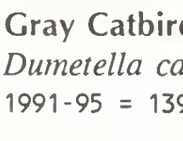
Varied Thrush
Ixoreus naevius
1991-95 = 82

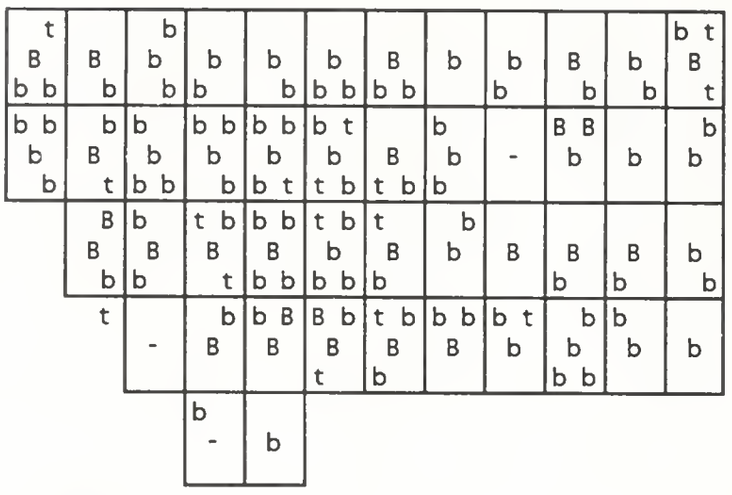




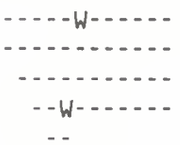
■ Mimidae

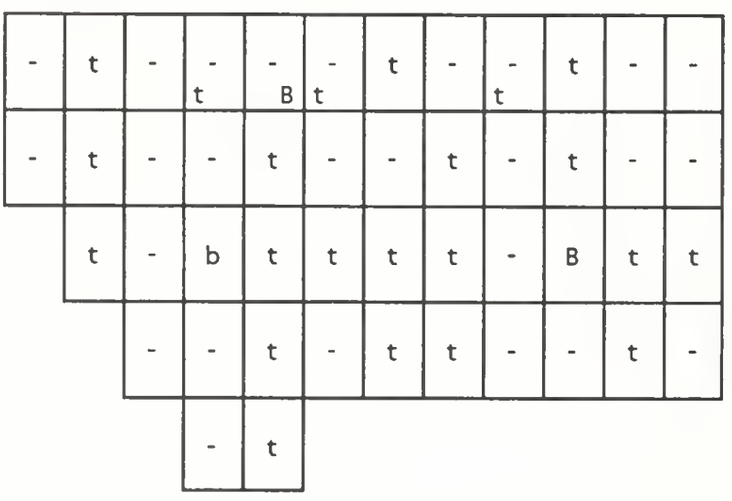
Gray Catbird
Dumetella carolinensis
1991-95 = 139



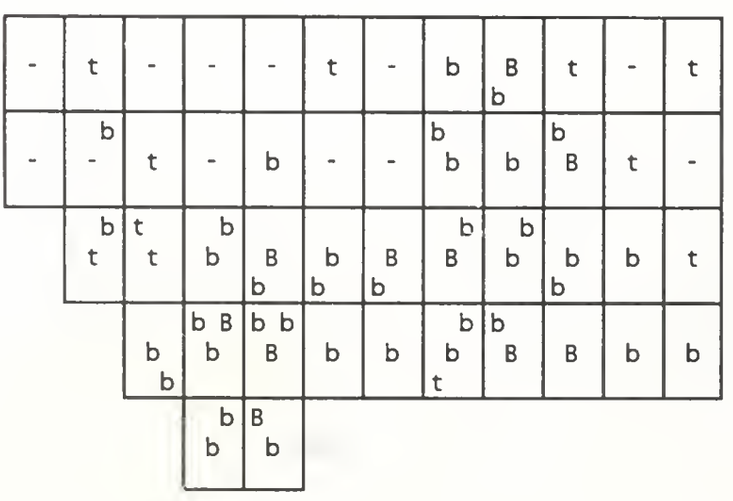


Northern Mockingbird
Mimus polyglottos
1991-95 = 8

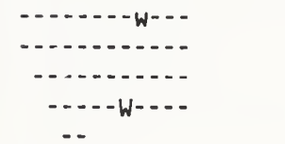


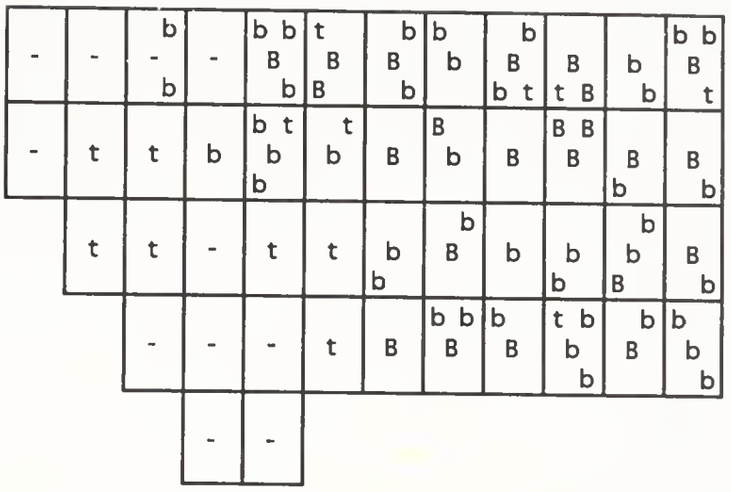


Sage Thrasher
Oreoscoptes montanus
1991-95 = 31



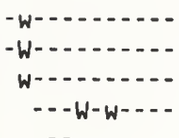
Brown Thrasher
Toxostoma rufum
1991-95 = 57

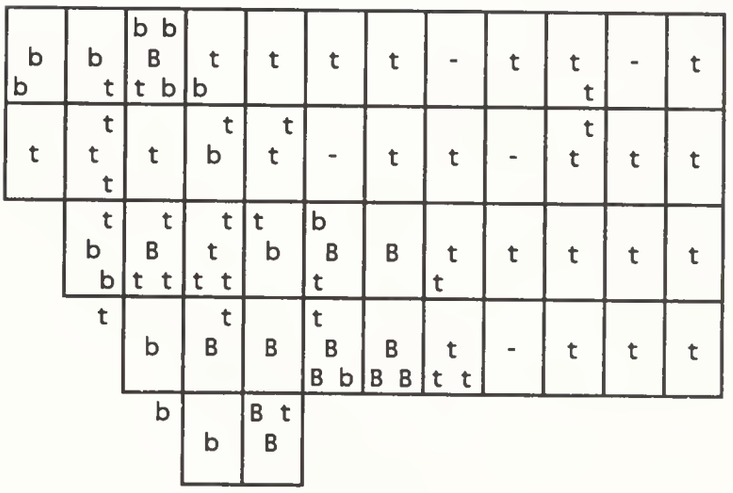




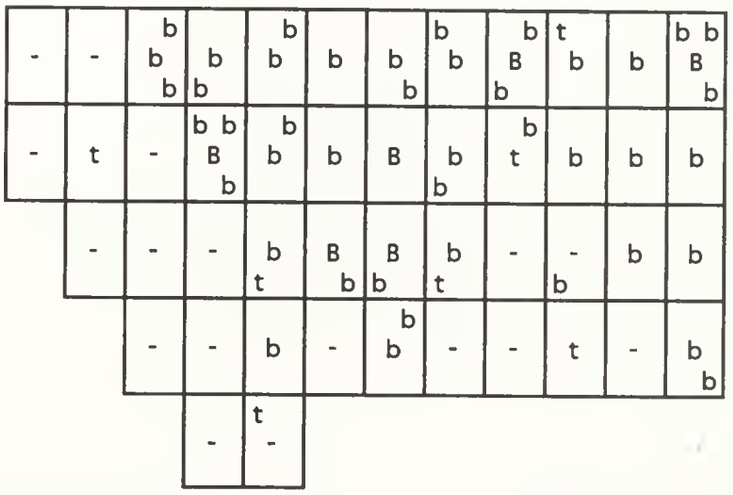
■ Motacillidae

American Pipit
Anthus rubescens
1991-95 = 51



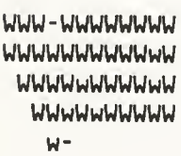


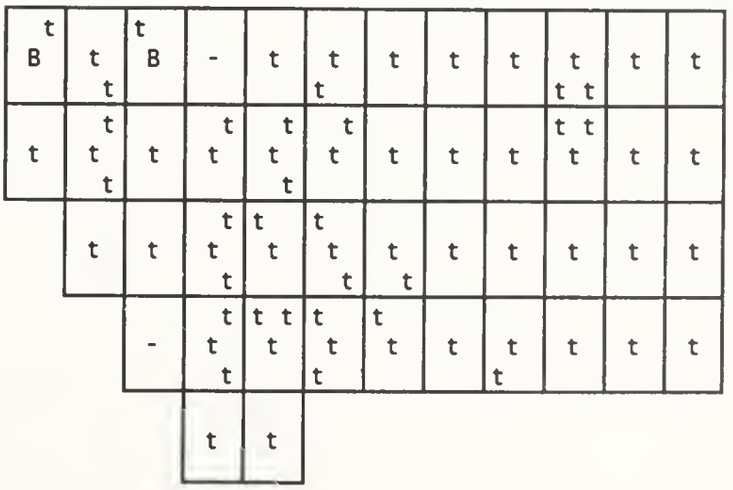
Sprague's Pipit
Anthus spragueii
1991-95 = 37



■ Bombycillidae

Bohemian Waxwing
Bombycilla garrulus
1991-95 = 64



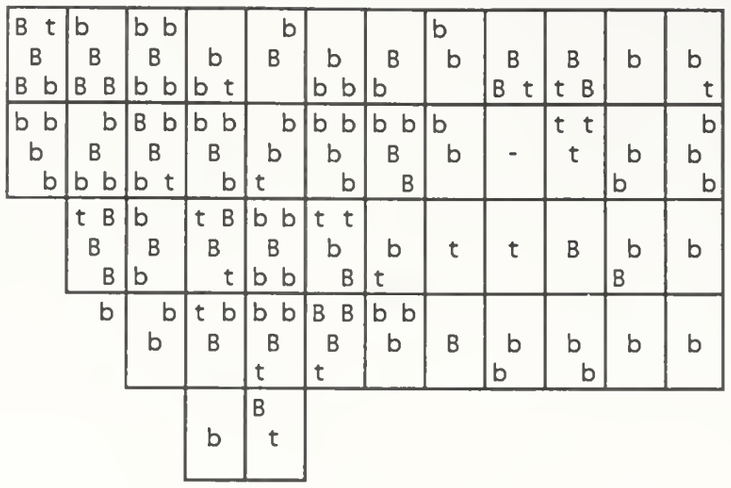


Cedar Waxwing

Bombycilla cedrorum

1991-95 = 167

```
WW--W---WW--
WWWWW-W-----
 WWWW--WWWW-
  WWWW-WWW--
   WW
```



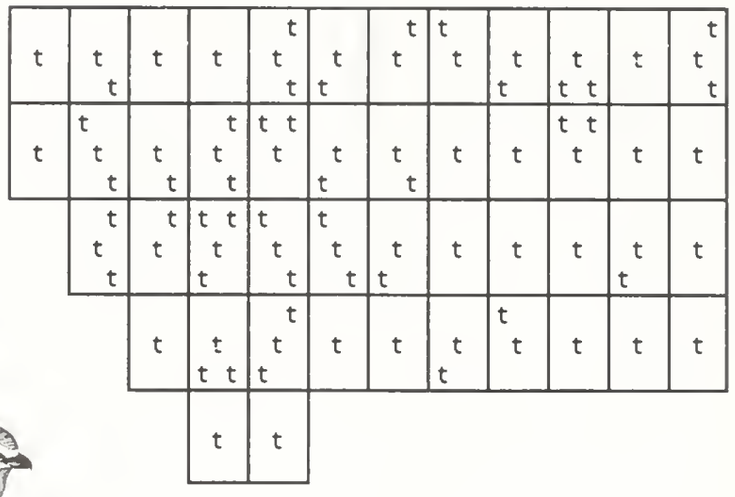
■ Laniidae

Northern Shrike

Lanius excubitor

1991-95 = 89

```
WWWWWW-WWW-W
WWWWWWWWWWWW
 WWWWWWWWWWW
  WWWWWWWWWW
   W-
```



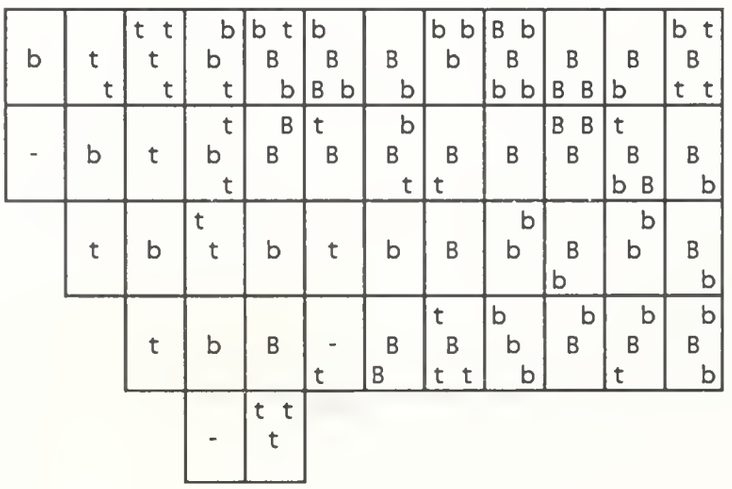
Loggerhead Shrike

Lanius ludovicianus

1991-95 = 70

SI

```
--------W---
------------
 ------------
  -WW--------
   --
```



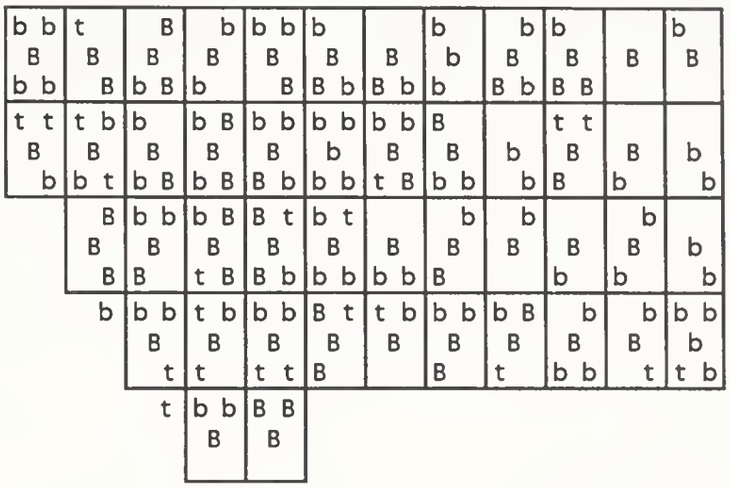
European Starling

Sturnus vulgaris

1991-95 = 262

(introduced)

WWW-WWWWWW-W
WWWWWWW-W-ww
WWWW--WWWW-
-WWW-WWW-W
WW

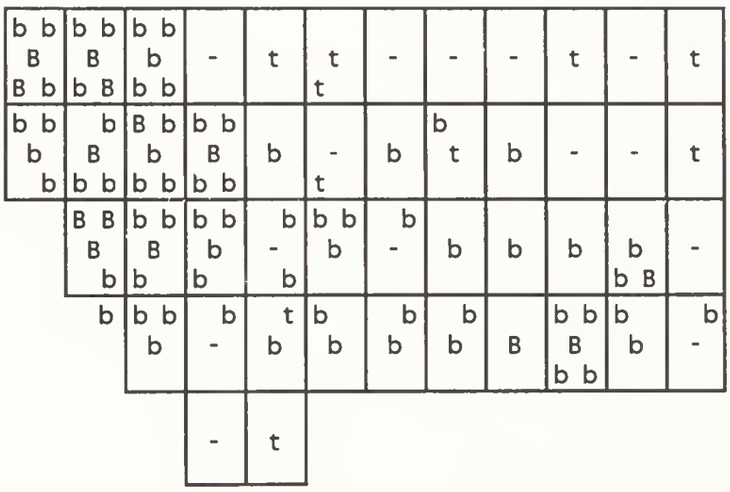


■ Vireonidae

Solitary Vireo

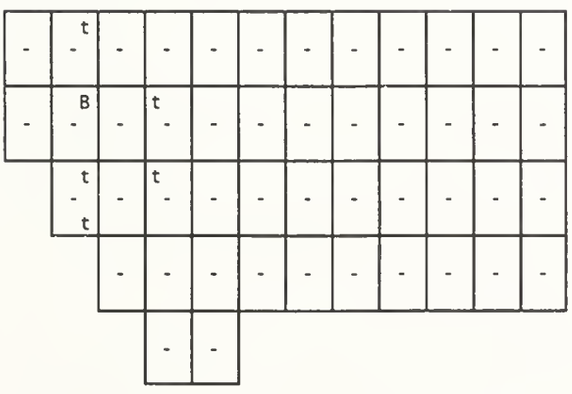
Vireo solitarius

1991-95 = 101



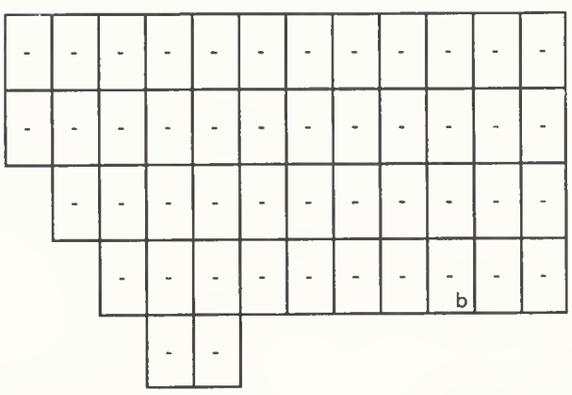
Cassin's Vireo

Vireo solitarius cassinii



Plumbeous Vireo

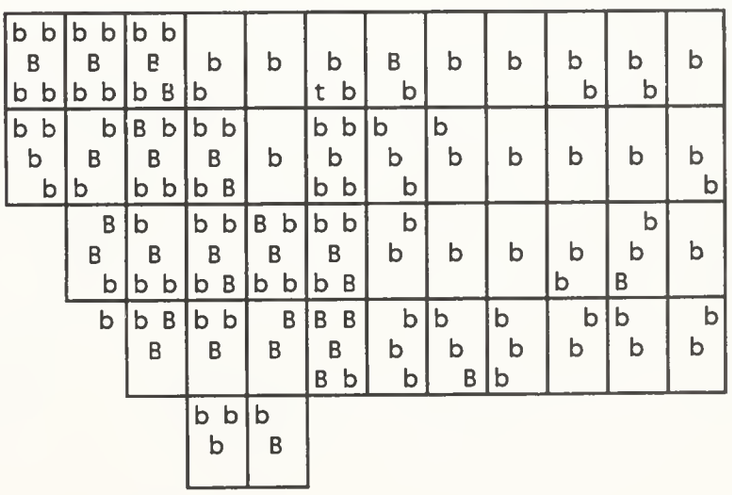
Vireo solitarius plumbeus



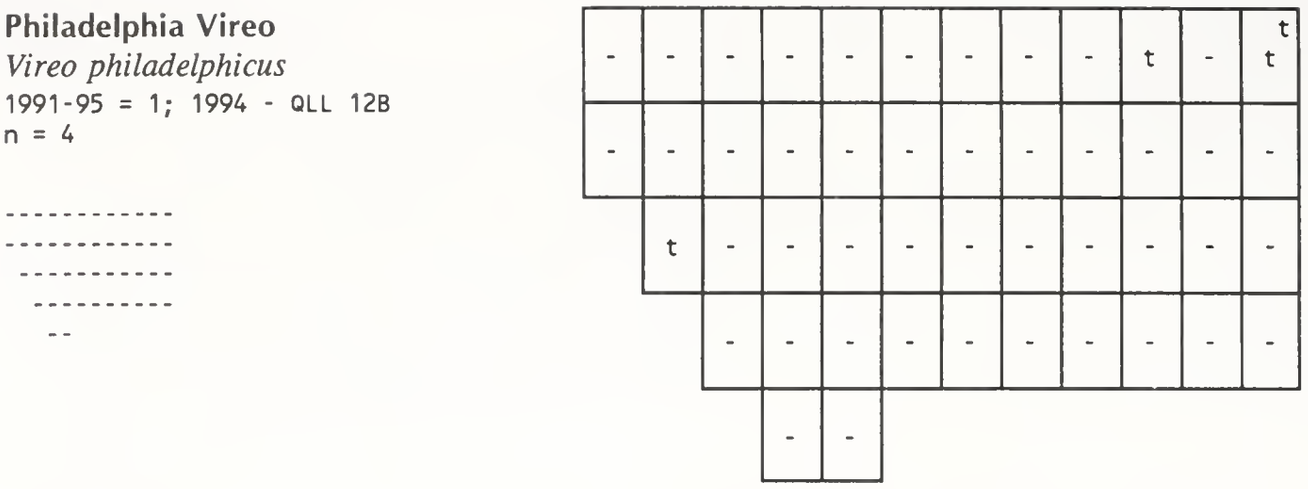
Warbling Vireo

Vireo gilvus

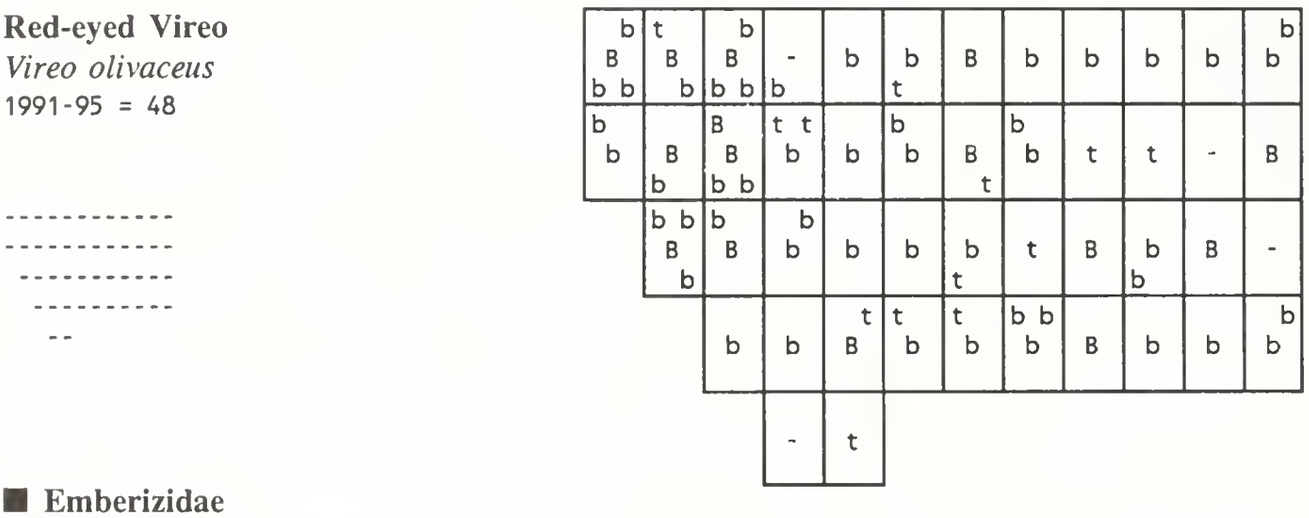
1991-95 = 173



Philadelphia Vireo
Vireo philadelphicus
1991-95 = 1; 1994 - QLL 12B
n = 4

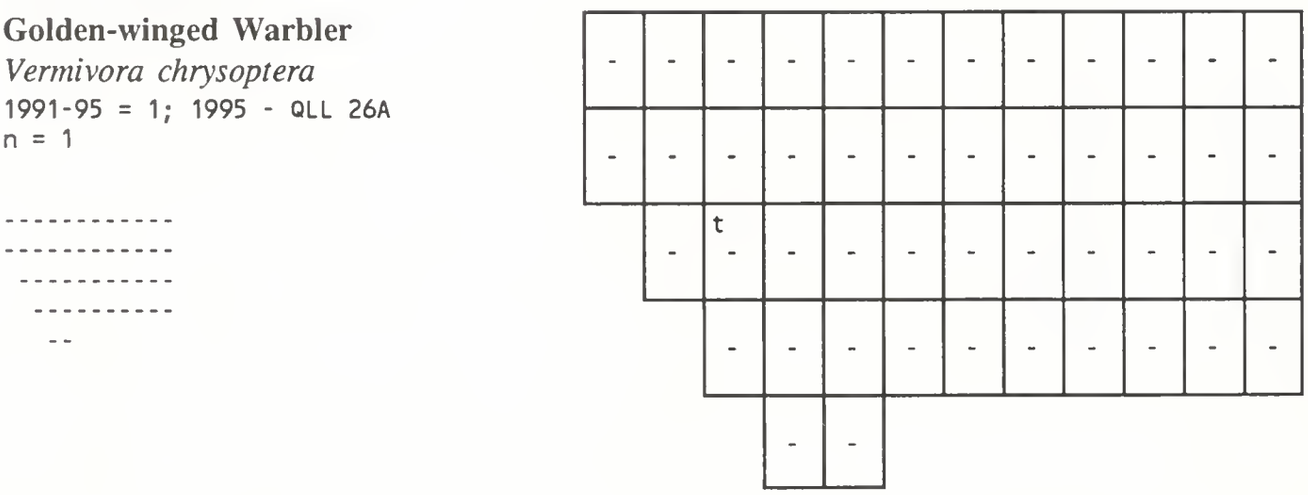


Red-eyed Vireo
Vireo olivaceus
1991-95 = 48

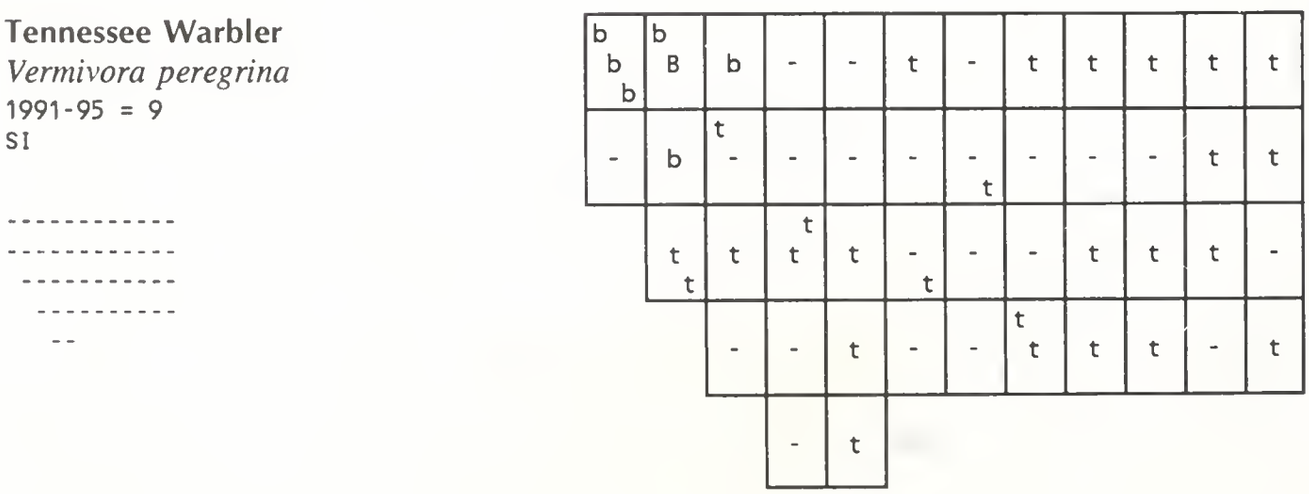


■ Emberizidae

Golden-winged Warbler
Vermivora chrysoptera
1991-95 = 1; 1995 - QLL 26A
n = 1



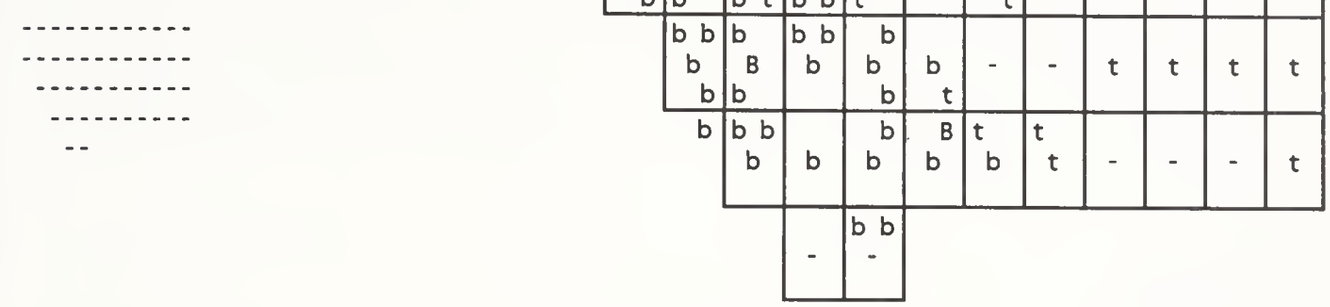
Tennessee Warbler
Vermivora peregrina
1991-95 = 9
SI



Orange-crowned Warbler

Vermivora celata

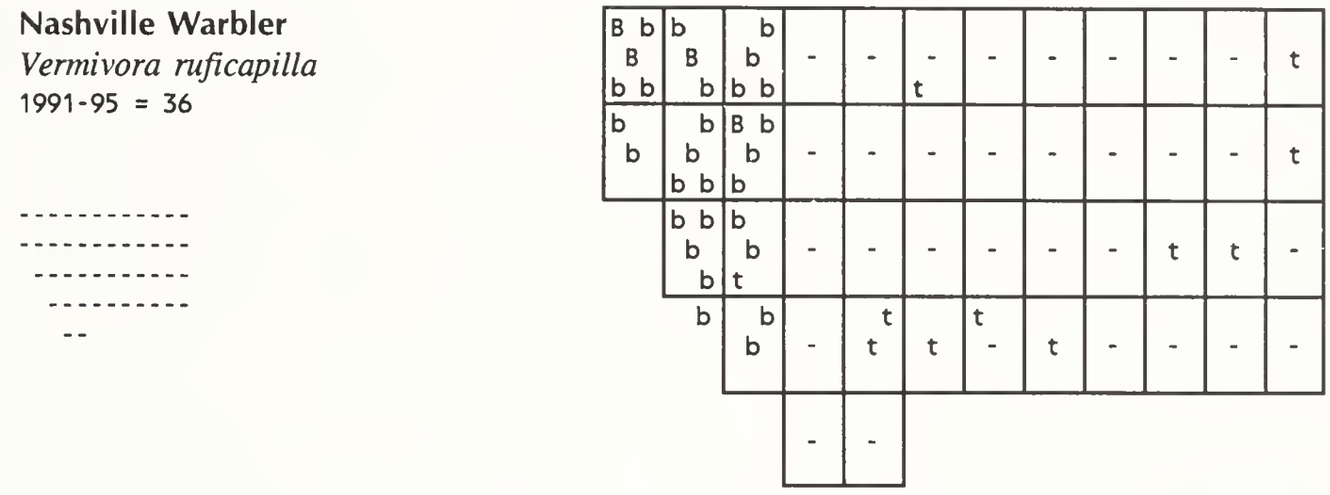
1991-95 = 97



Nashville Warbler

Vermivora ruficapilla

1991-95 = 36

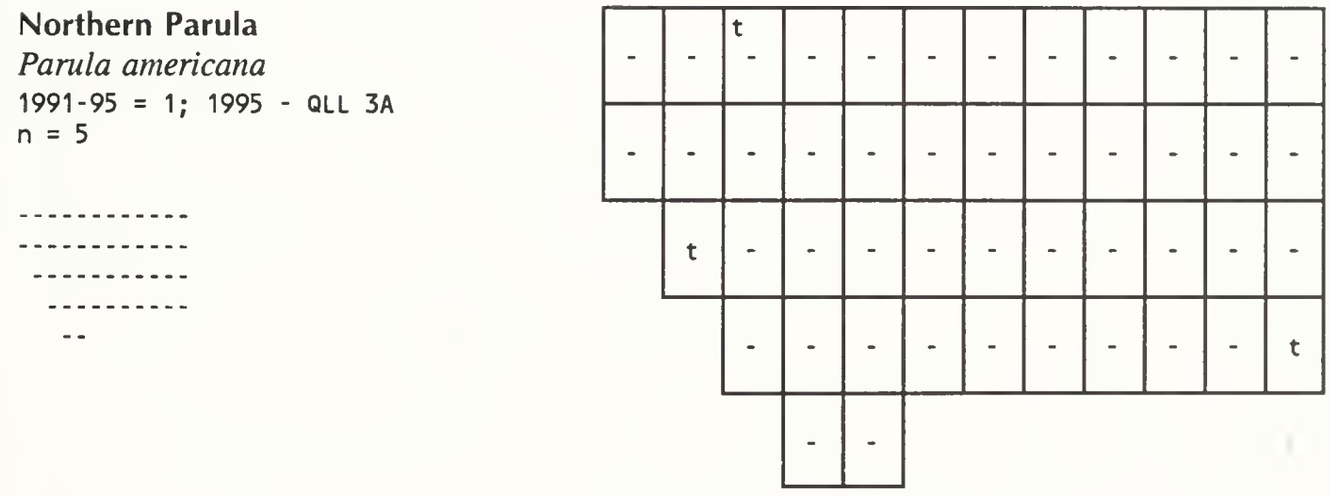


Northern Parula

Parula americana

1991-95 = 1; 1995 - QLL 3A

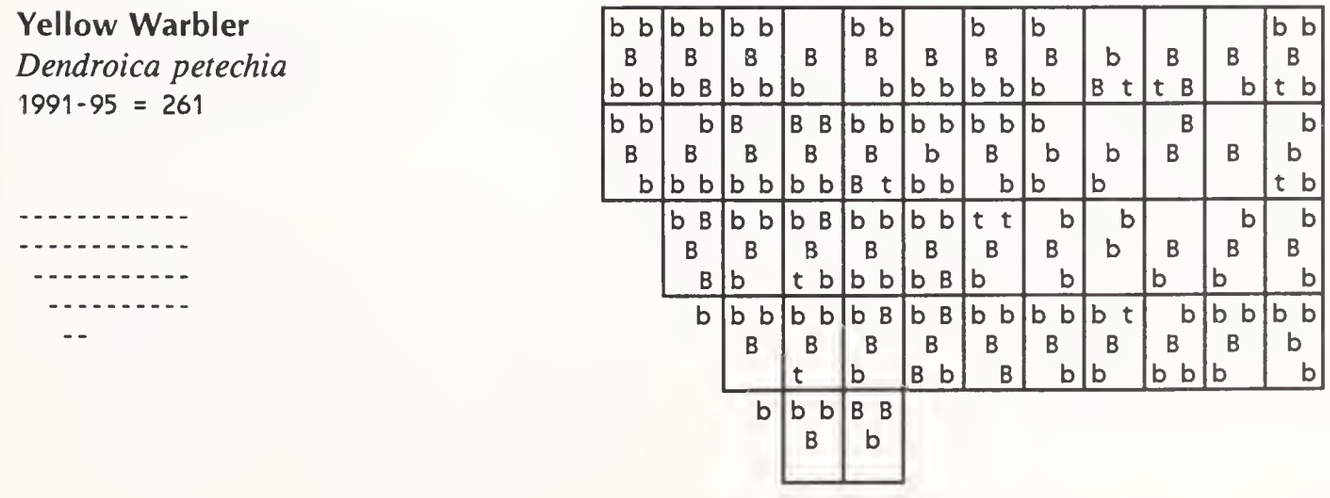
n = 5



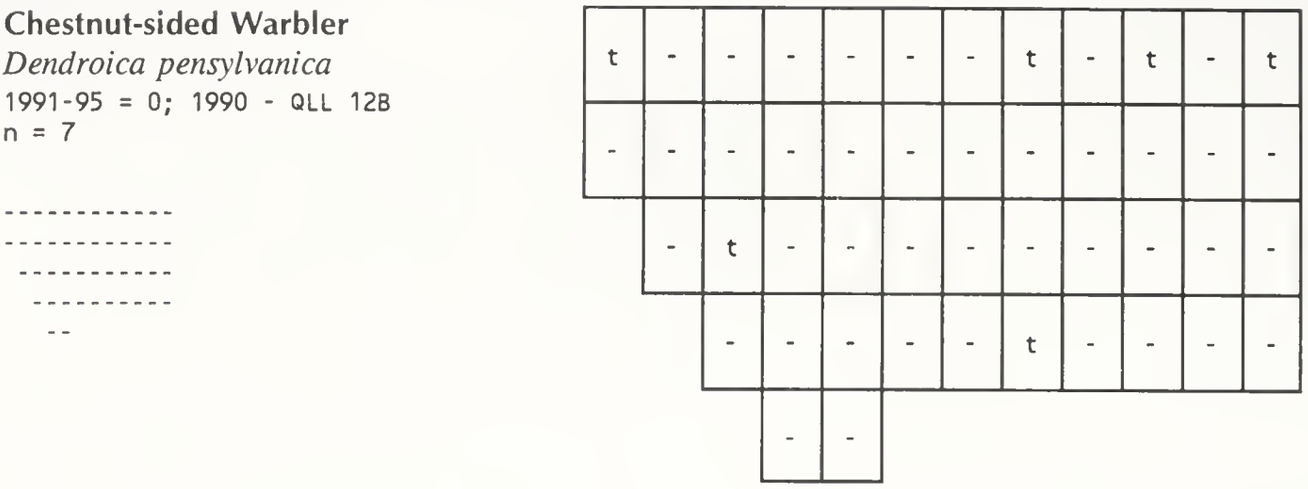
Yellow Warbler

Dendroica petechia

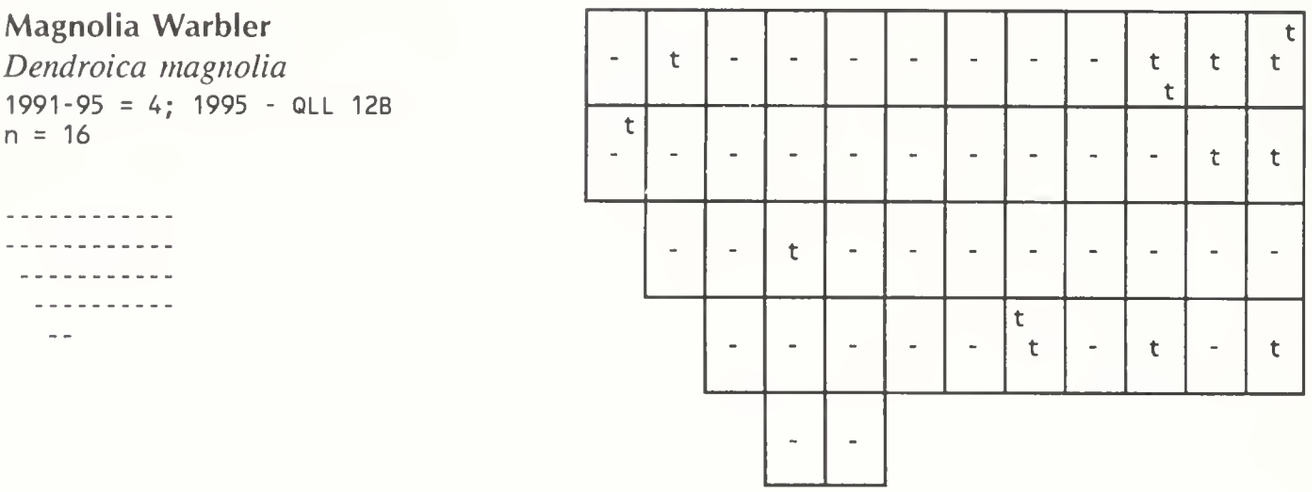
1991-95 = 261



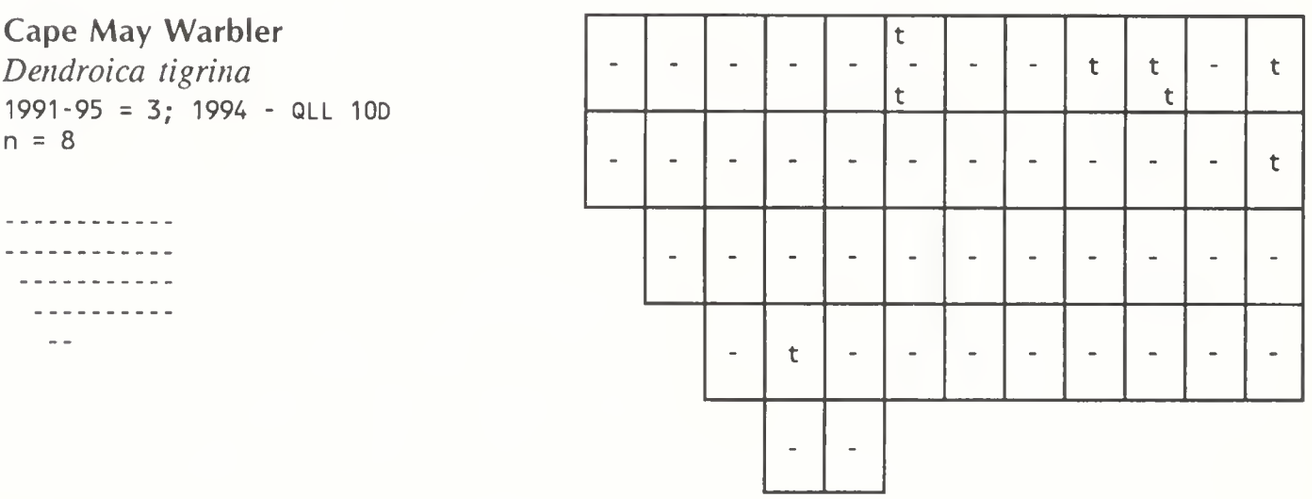
Chestnut-sided Warbler
Dendroica pensylvanica
1991-95 = 0; 1990 - QLL 12B
n = 7



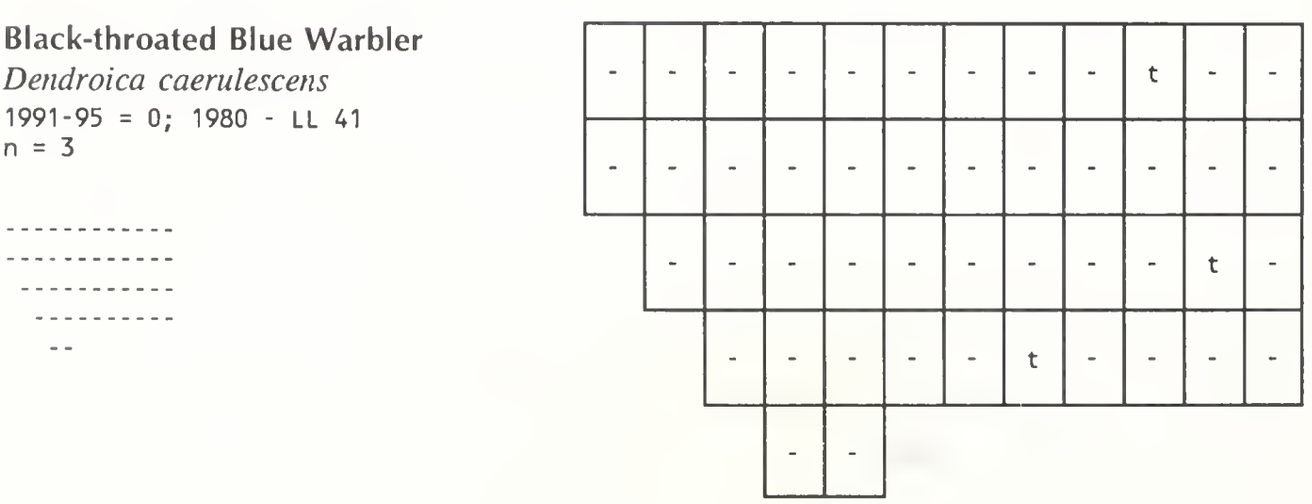
Magnolia Warbler
Dendroica magnolia
1991-95 = 4; 1995 - QLL 12B
n = 16



Cape May Warbler
Dendroica tigrina
1991-95 = 3; 1994 - QLL 10D
n = 8



Black-throated Blue Warbler
Dendroica caerulescens
1991-95 = 0; 1980 - LL 41
n = 3



Yellow-rumped Warbler

Dendroica coronata

1991-95 = 233

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WW----------
-WW---------
 -W---------
  --WW------
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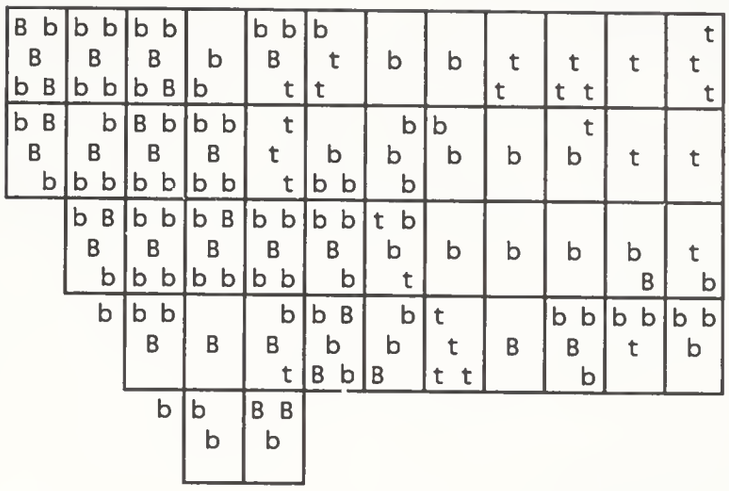
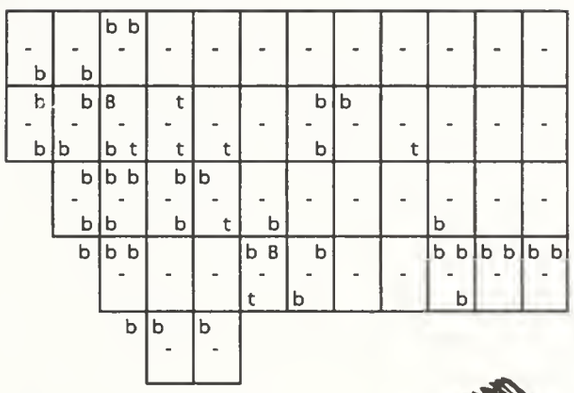


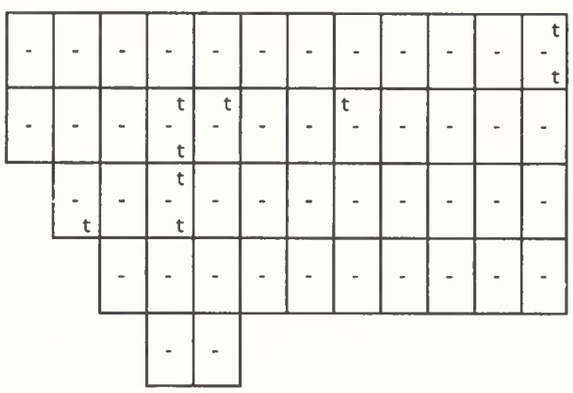
Audubon's Warbler

Dendroica coronata auduboni



Myrtle Warbler

Dendroica coronata coronata



Black-throated Gray Warbler

Dendroica nigrescens

1991-95 = 1; 1994 - QLL 30C

n = 4

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  --W-------
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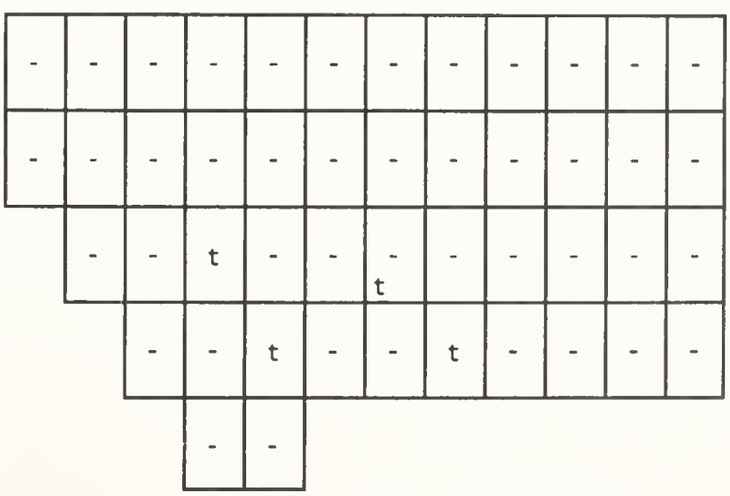
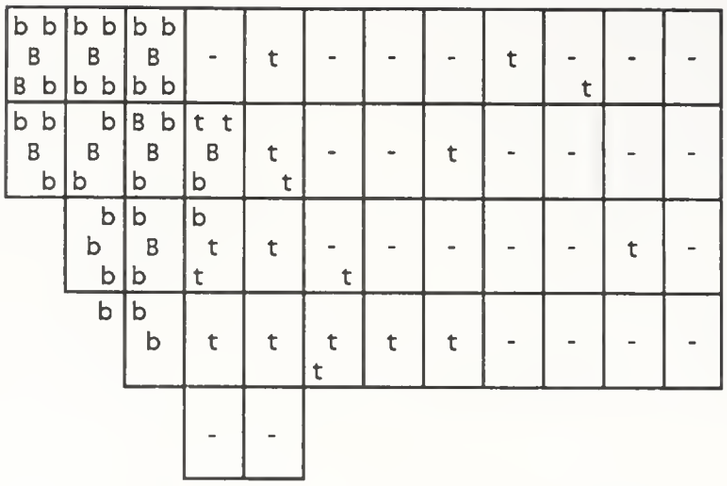


Townsend's Warbler

Dendroica townsendi

1991-95 = 70

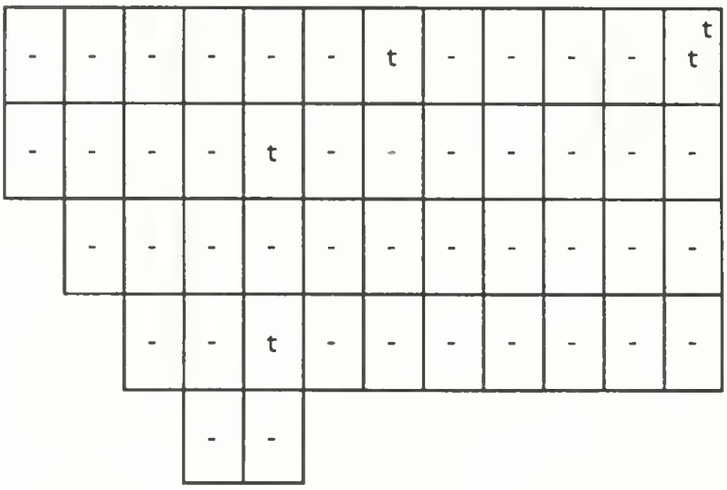


Black-throated Green Warbler

Dendroica virens

1991-95 = 1; 1995 - QLL 12B

n = 6

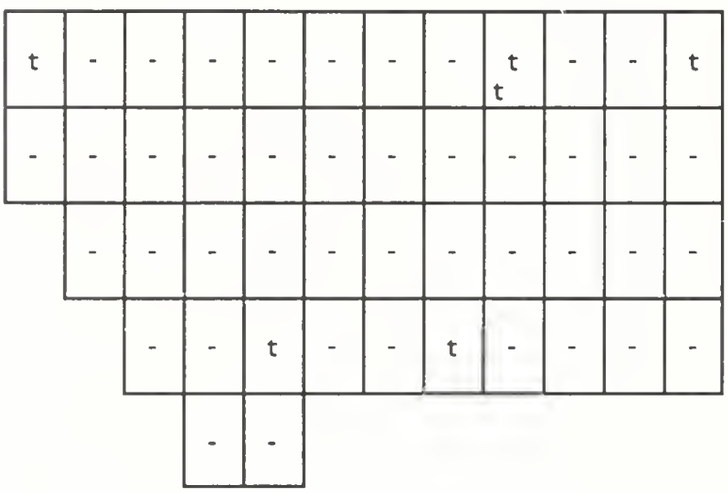


Blackburnian Warbler

Dendroica fusca

1991-95 = 1; 1991 - QLL 9C

n = 7

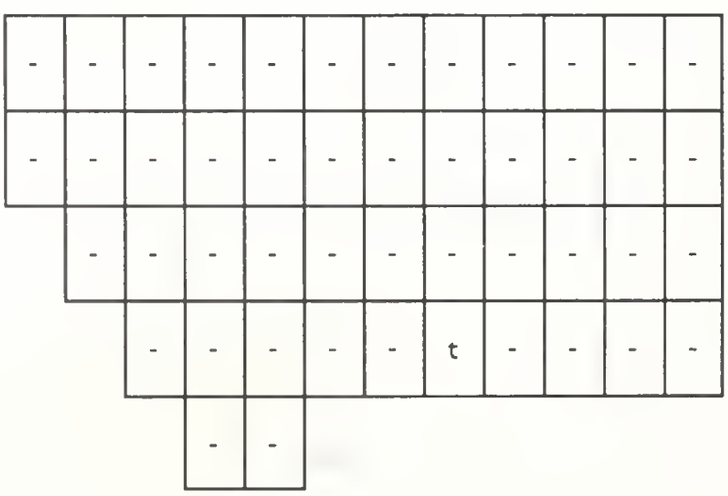


Yellow-throated Warbler

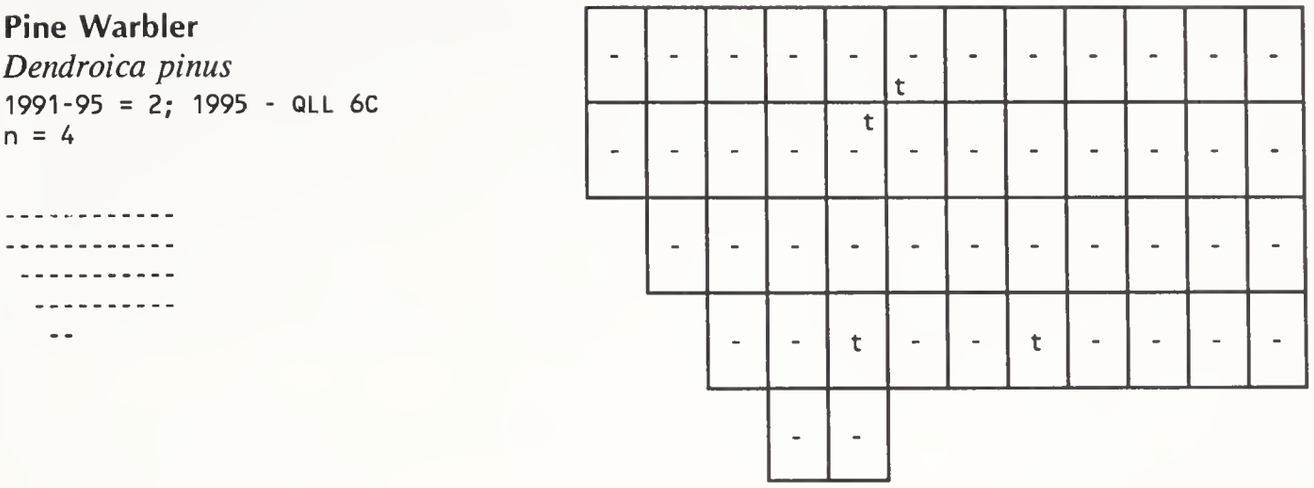
Dendroica dominica

1991-95 = 0; 1982 - LL 41

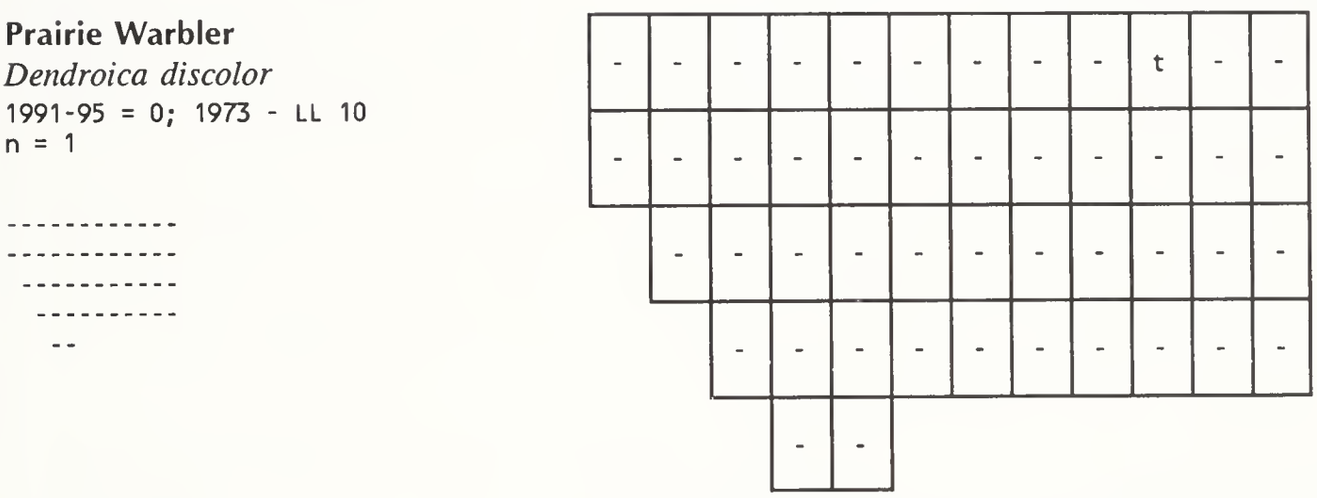
n = 1



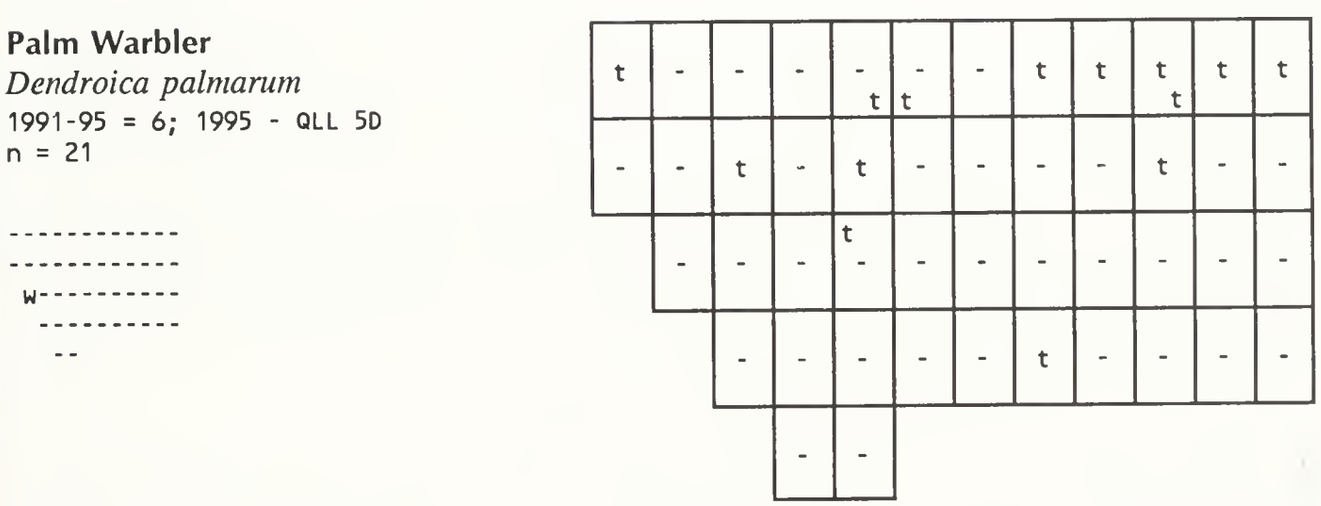
Pine Warbler
Dendroica pinus
1991-95 = 2; 1995 - QLL 6C
n = 4



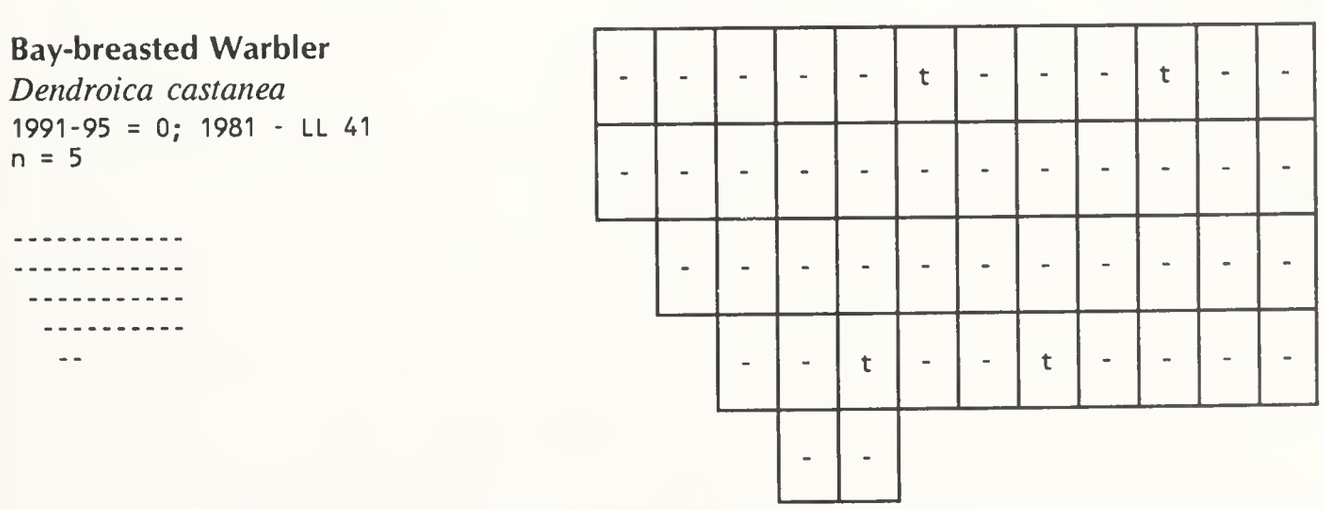
Prairie Warbler
Dendroica discolor
1991-95 = 0; 1973 - LL 10
n = 1



Palm Warbler
Dendroica palmarum
1991-95 = 6; 1995 - QLL 5D
n = 21



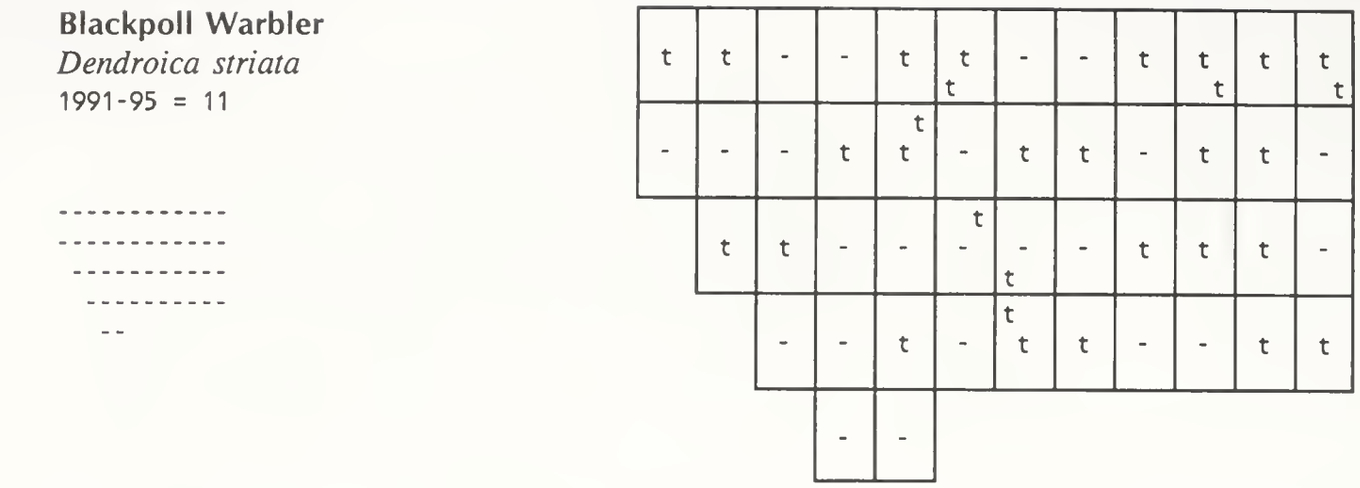
Bay-breasted Warbler
Dendroica castanea
1991-95 = 0; 1981 - LL 41
n = 5



Blackpoll Warbler

Dendroica striata

1991-95 = 11

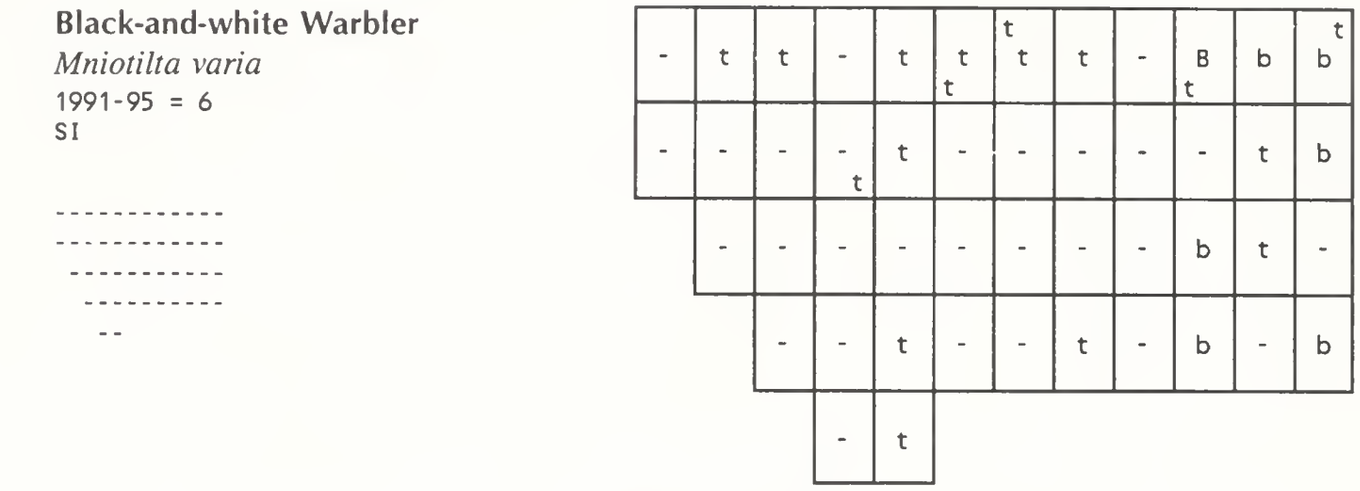


Black-and-white Warbler

Mniotilta varia

1991-95 = 6

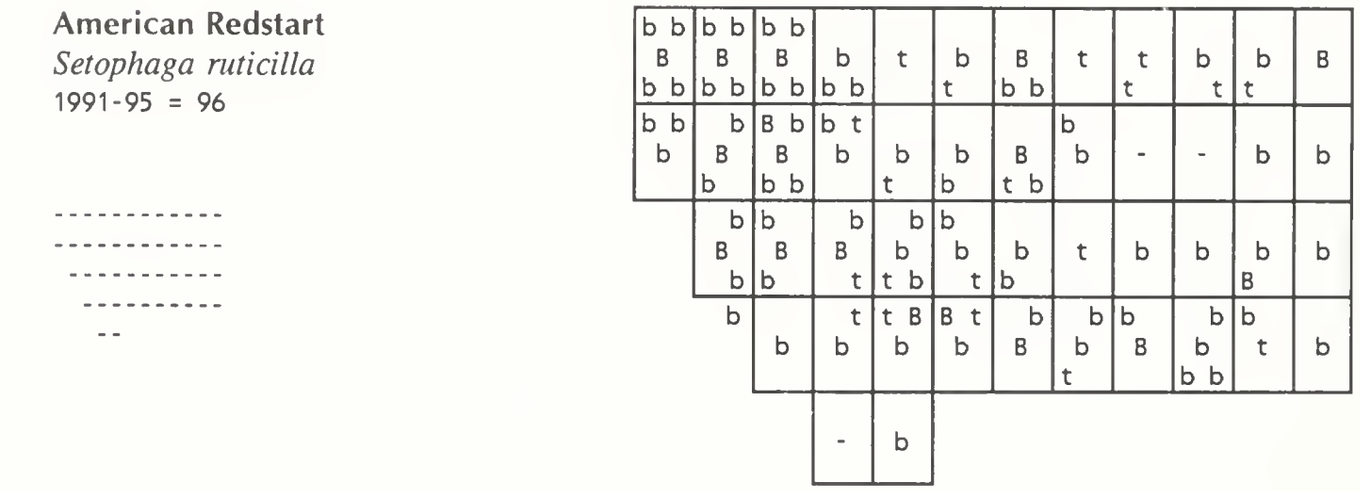
SI



American Redstart

Setophaga ruticilla

1991-95 = 96

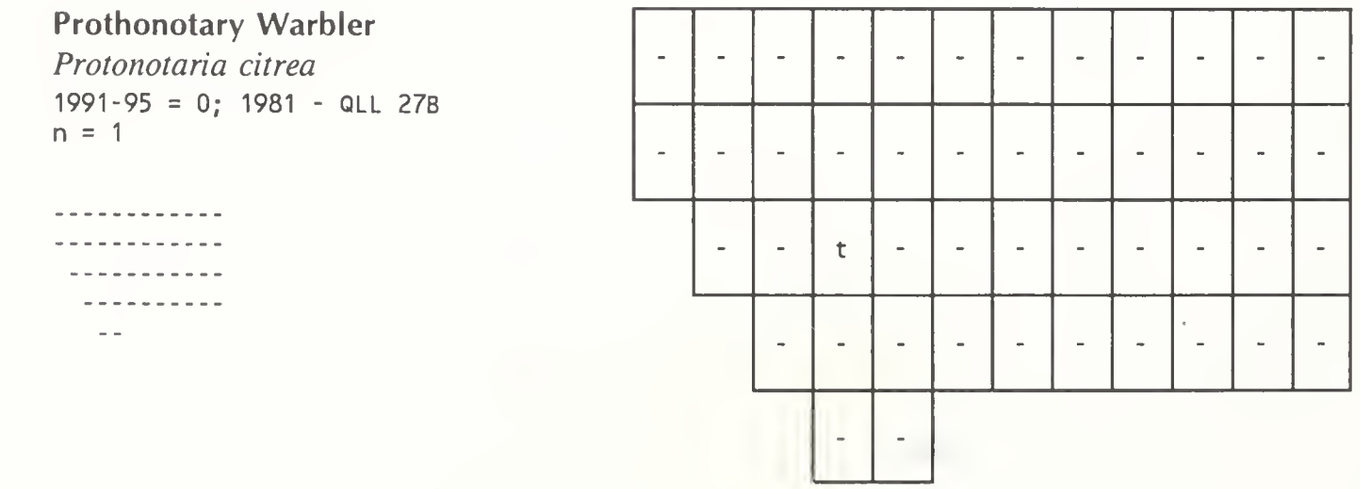


Prothonotary Warbler

Protonotaria citrea

1991-95 = 0; 1981 - QLL 27B

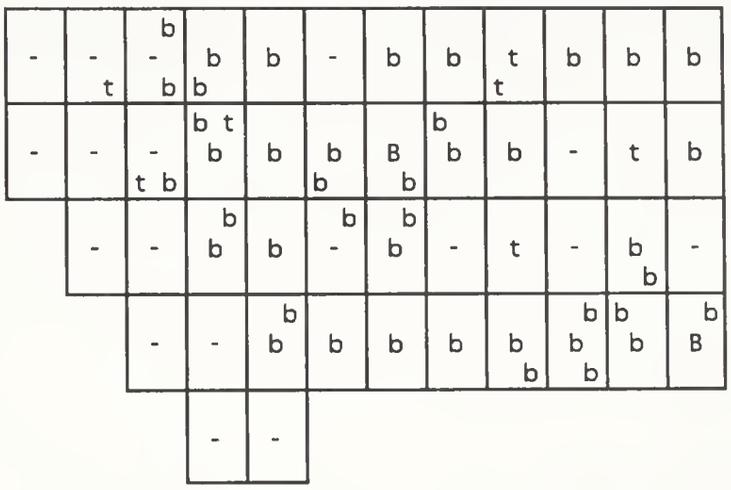
n = 1



Ovenbird

Seiurus aurocapillus

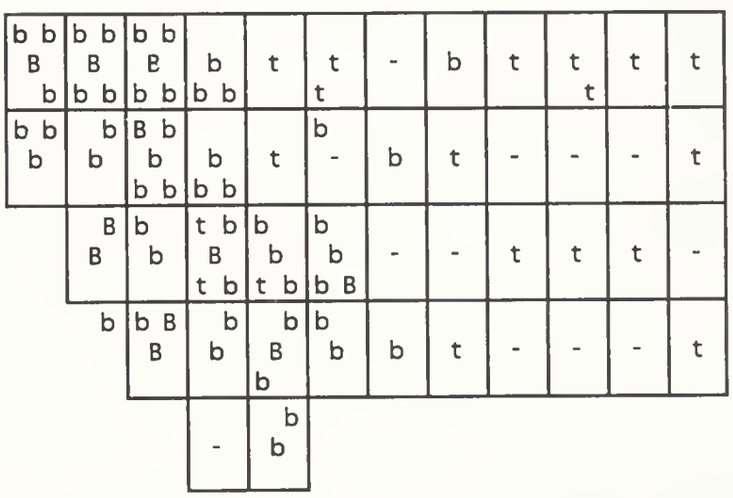
1991-95 = 33



Northern Waterthrush

Seiurus noveboracensis

1991-95 = 85

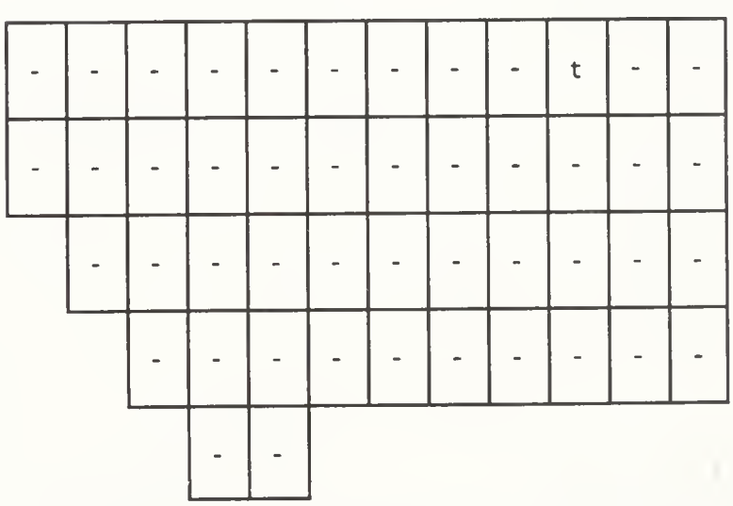


Kentucky Warbler

Oporornis formosus

1991-95 = 0; 1979 - LL 10

n = 1

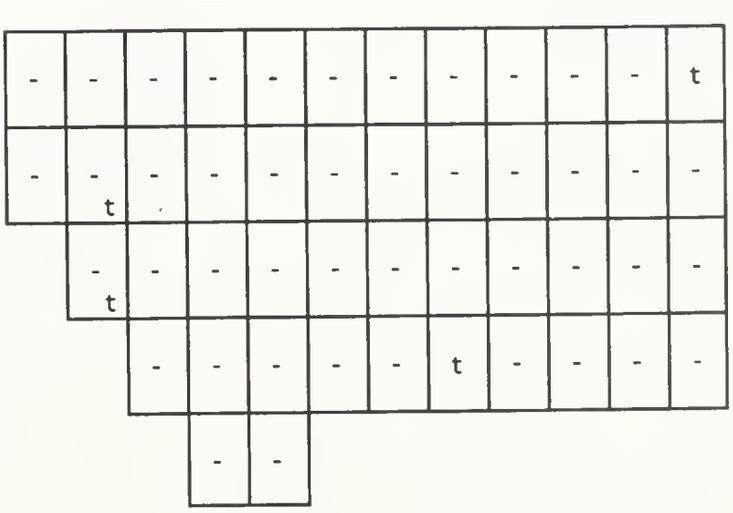


Connecticut Warbler

Oporornis agilis

1991-95 = 2; 1994 - QLL 14D

n = 5

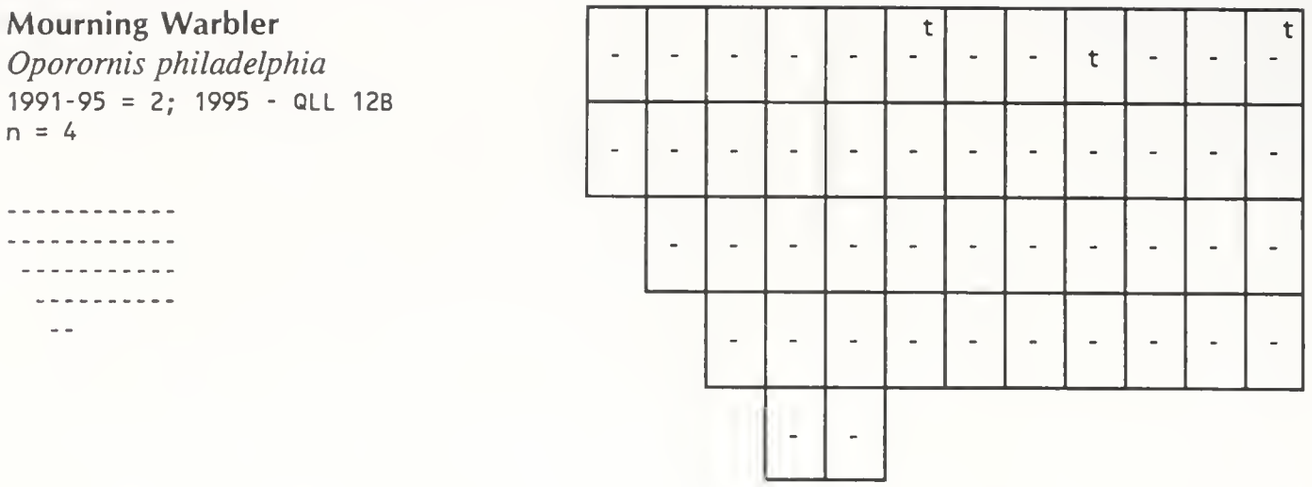


Mourning Warbler

Oporornis philadelphia

1991-95 = 2; 1995 - QLL 12B

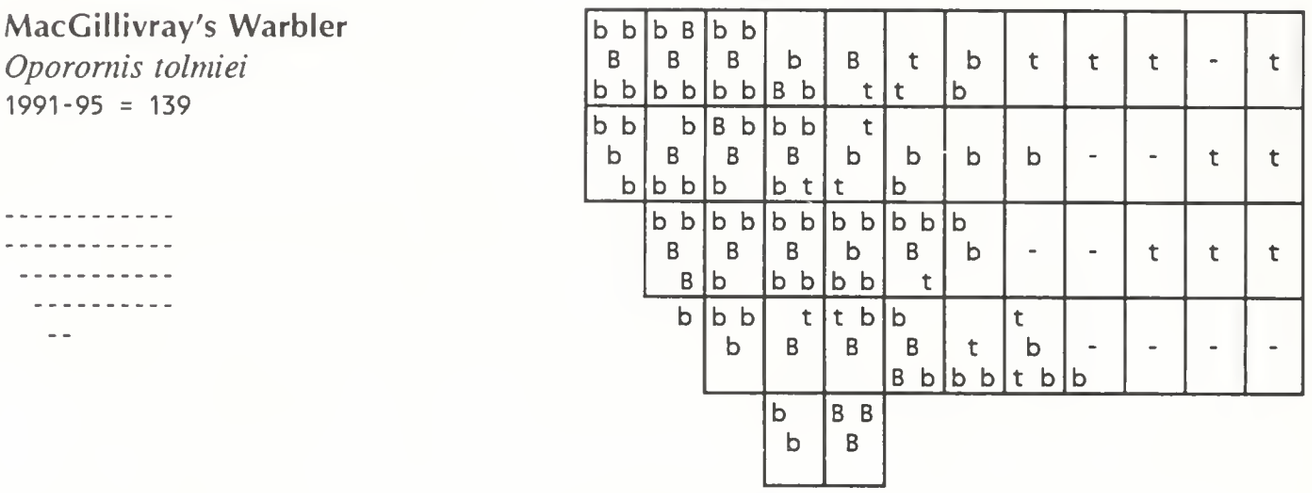
n = 4



MacGillivray's Warbler

Oporornis tolmiei

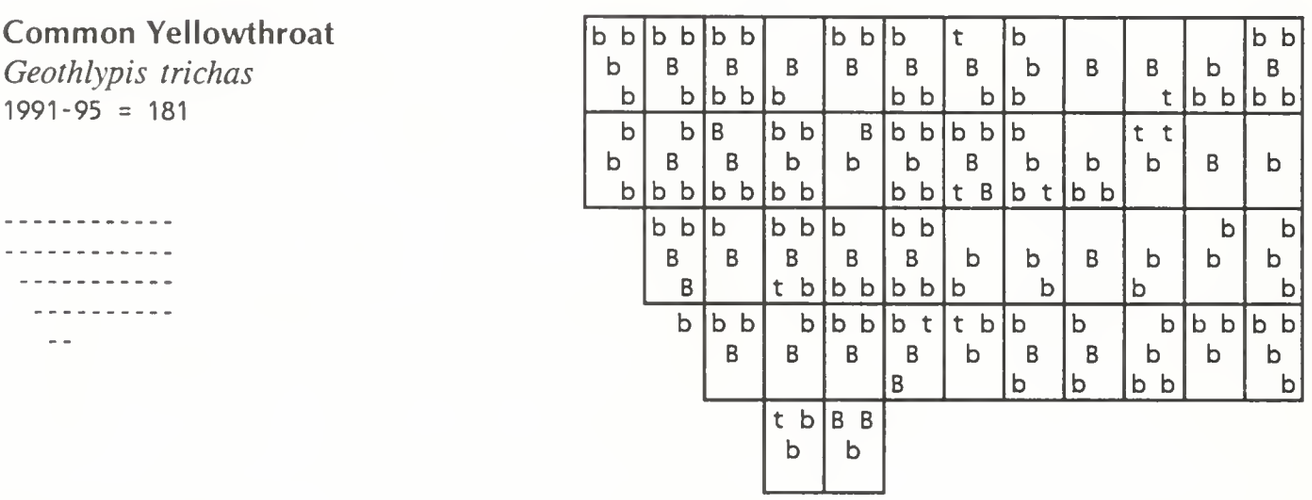
1991-95 = 139



Common Yellowthroat

Geothlypis trichas

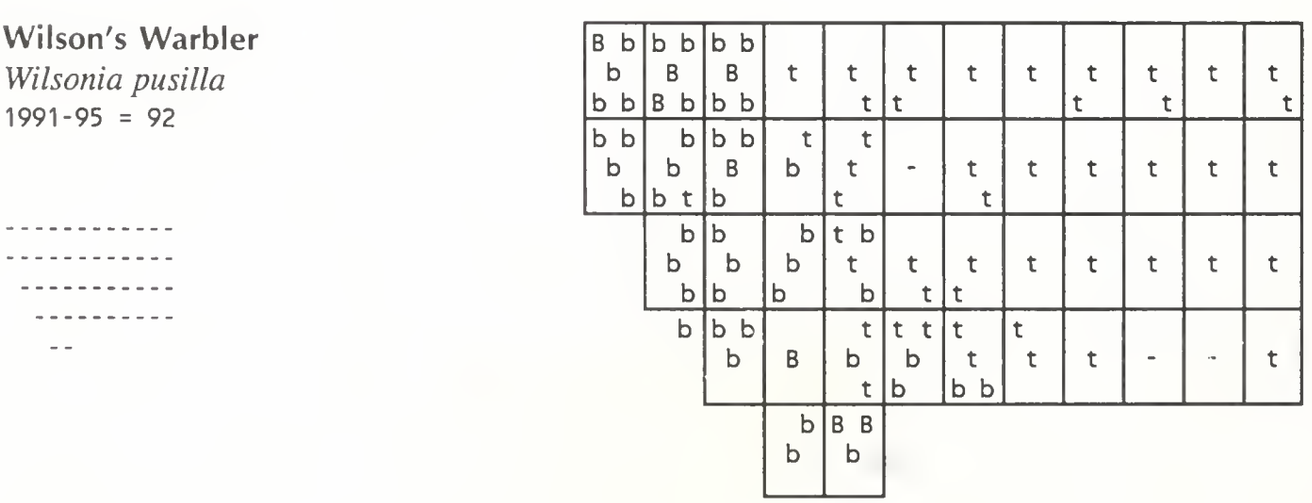
1991-95 = 181



Wilson's Warbler

Wilsonia pusilla

1991-95 = 92

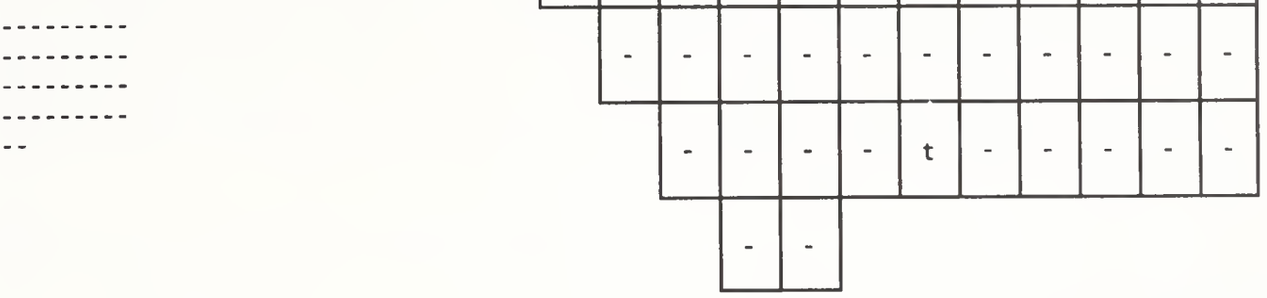


Canada Warbler

Wilsonia canadensis

1991-95 = 2; 1993 - QLL 6C

n = 6

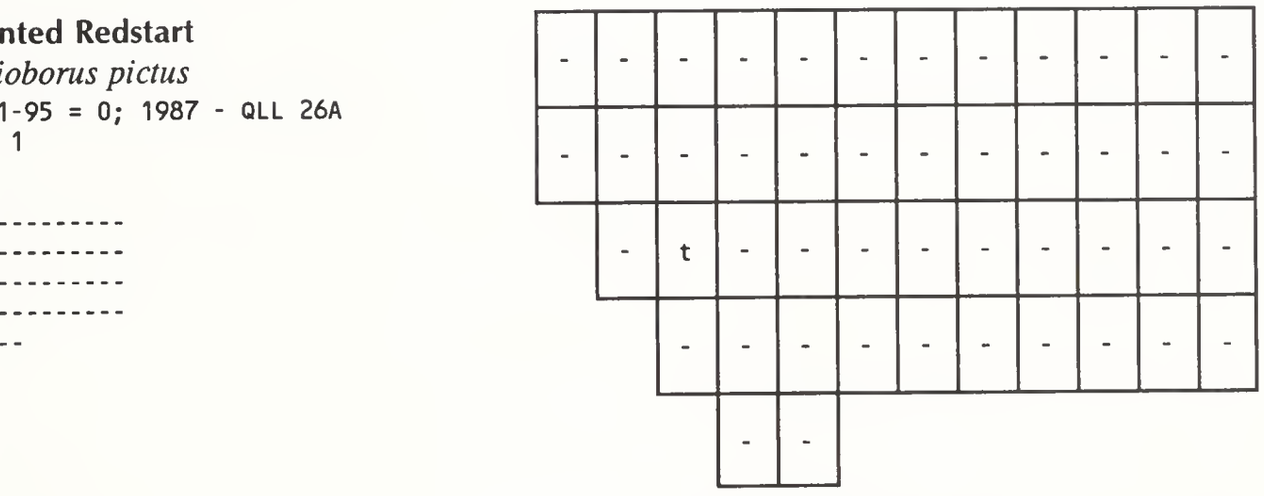


Painted Redstart

Myioborus pictus

1991-95 = 0; 1987 - QLL 26A

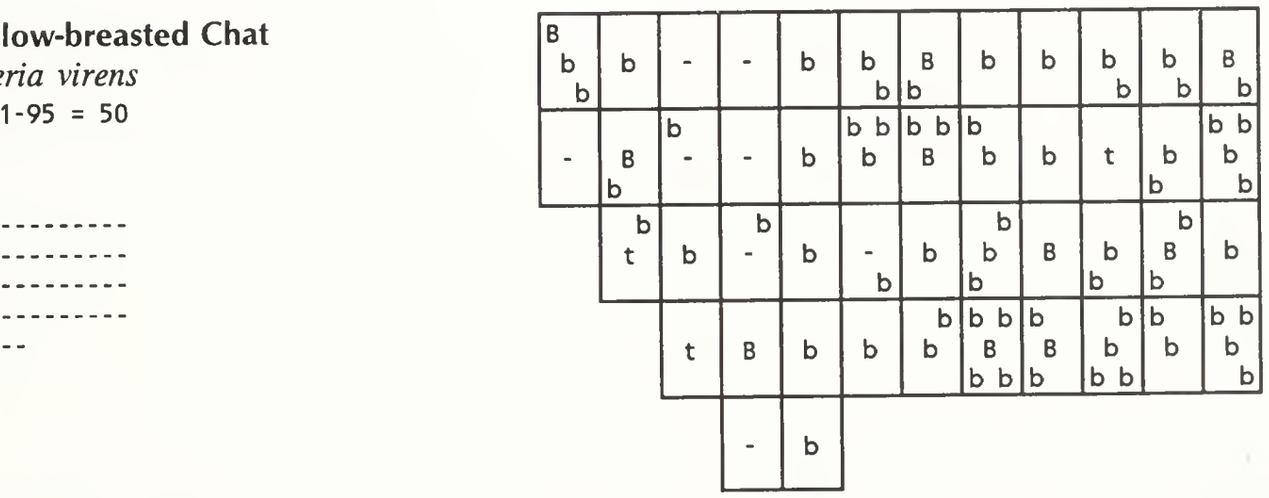
n = 1



Yellow-breasted Chat

Icteria virens

1991-95 = 50

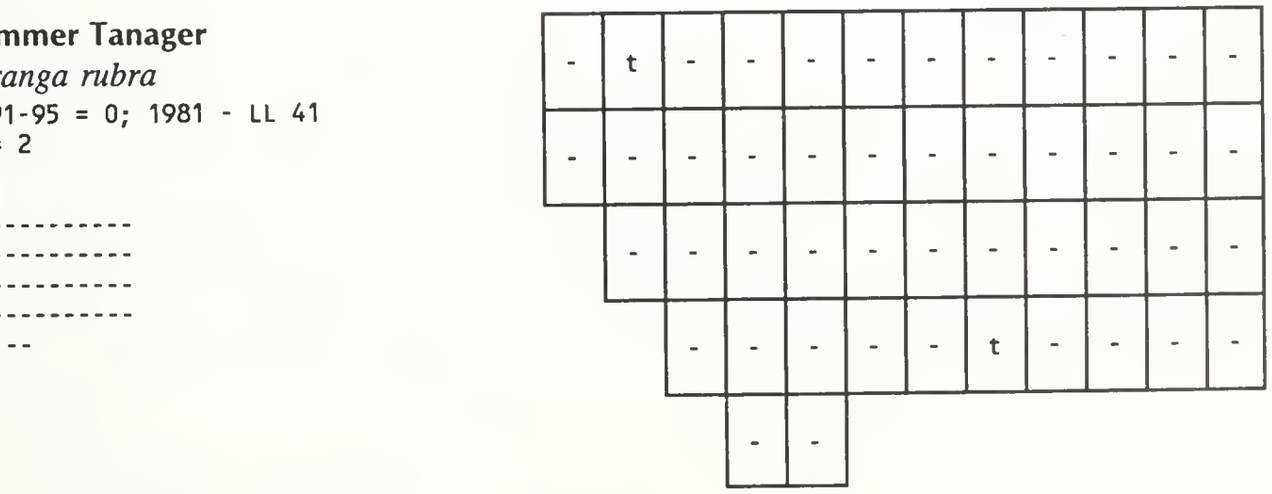


Summer Tanager

Piranga rubra

1991-95 = 0; 1981 - LL 41

n = 2



Scarlet Tanager

Piranga olivacea

1991-95 = 4; 1995 - QLL 12B

n = 10

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-	-	t -	-	-	-	-	-	-	-	-	-
	-	-	t	t	t	-	-	-	-	-	-
	t	-	-	t	t	-	-	-	-	-	-
		-	-	-	-						

Western Tanager

Piranga ludoviciana

1991-95 = 162

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b b B B b	b b B b B	b b B b b	-	b	-	B	b	t	t	-	-
b b B b	b B B b	B b B b b	b b B b	b t	b b b	b B b	B	b b	-	-	t
	b B B b	b b B B b	b B B B b	b B B b b	b b b b	b b	t	t	-	t b	-
	b	b b b	B t B	b B t	b b B b b	b B	b b B B	B	t b b b	b	b b
			b b b	B b b							

Rose-breasted Grosbeak

Pheucticus ludovicianus

1991-95 = 8

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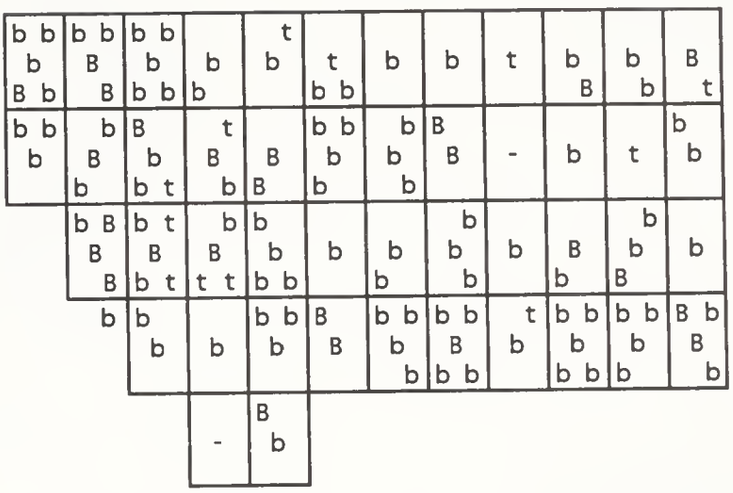
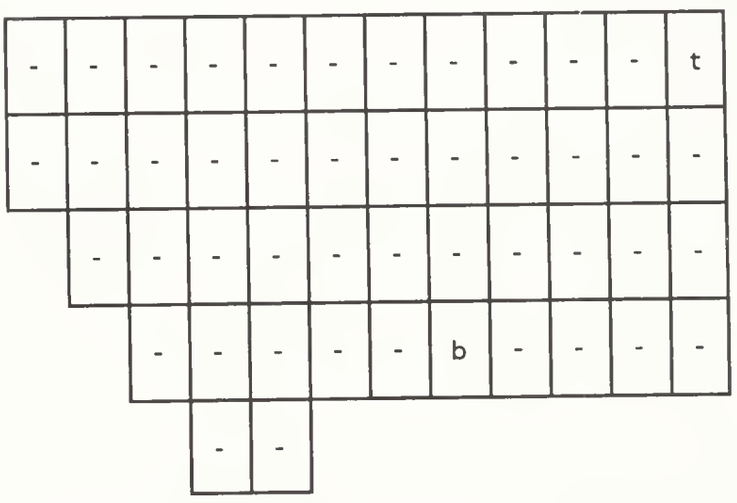
-	t	t	t	t t	t t	-	-	t	t t	t	t t
-	-	-	-	-	-	-	t	-	t	-	-
	t t	-	t	-	t -	-	t	-	t	t t	-
		-	t t	t	t	t	b	-	-	-	-
			-	-							

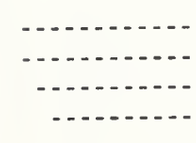
Black-headed Grosbeak
Pheucticus melanocephalus
1991-95 = 128

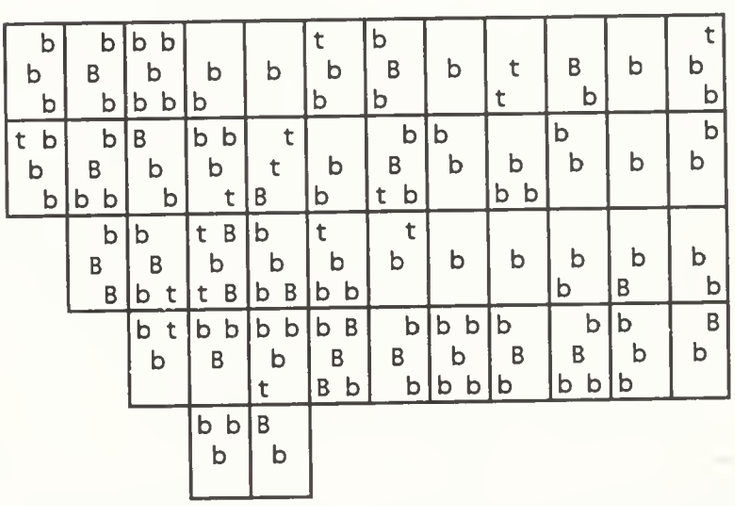


Blue Grosbeak
Guiraca caerulea
1991-95 = 0; 1975 - LL 41
n = 3

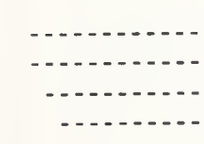


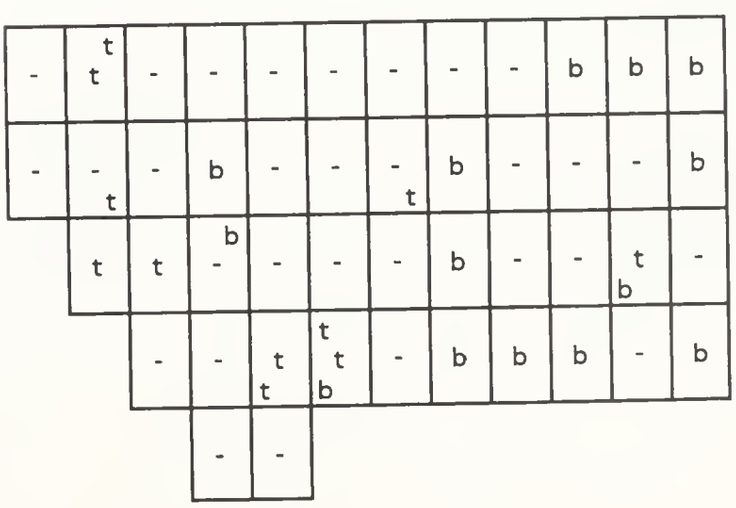
Lazuli Bunting
Passerina amoena
1991-95 = 149





Indigo Bunting
Passerina cyanea
1991-95 = 9

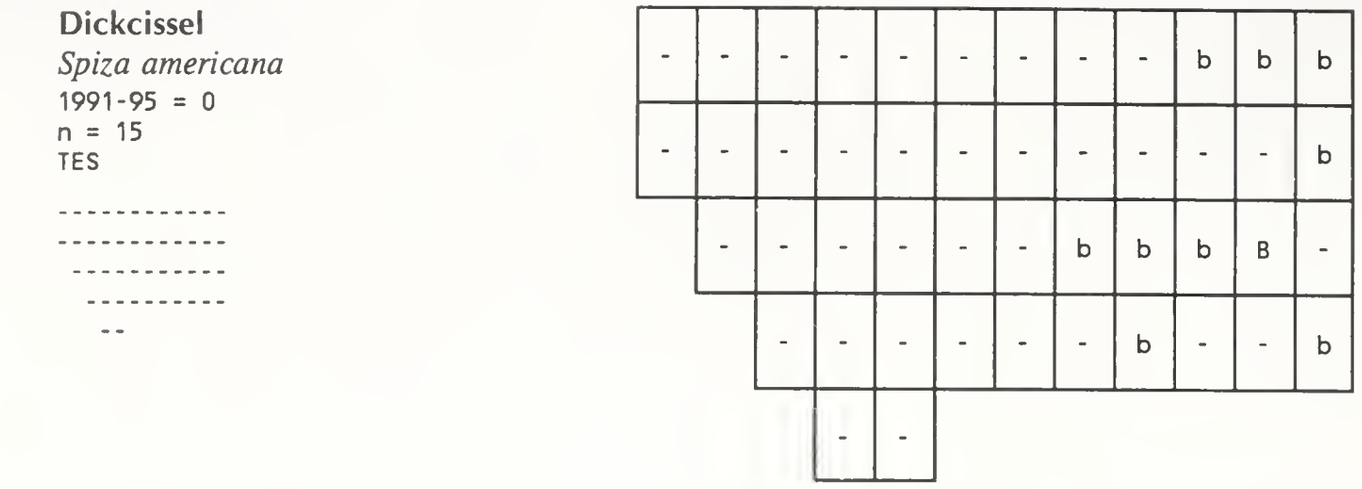




Dickcissel

Spiza americana

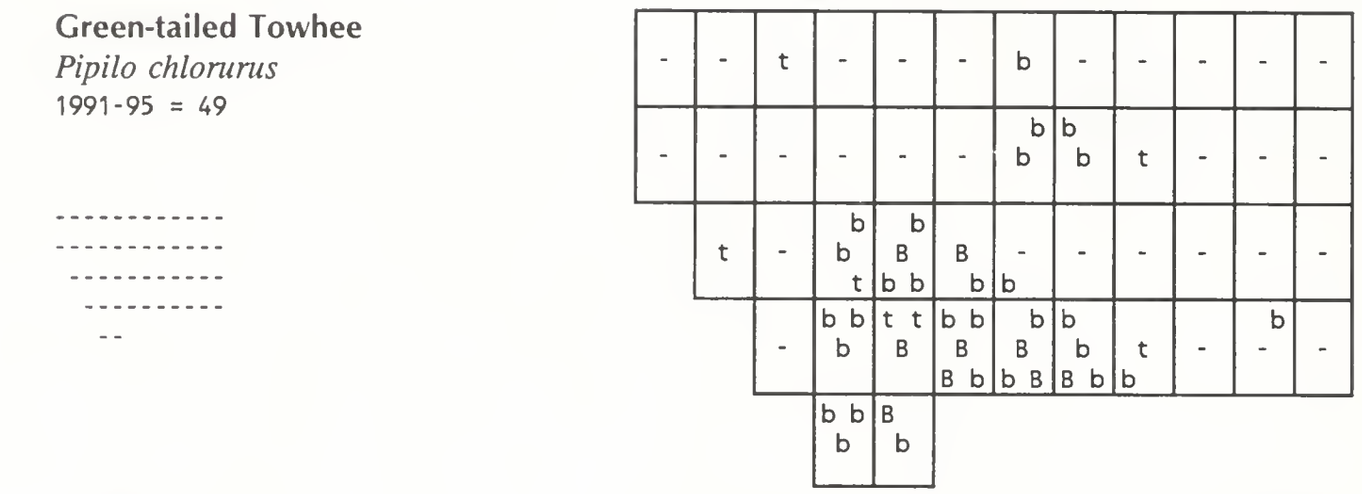
1991-95 = 0
n = 15
TES



Green-tailed Towhee

Pipilo chlorurus

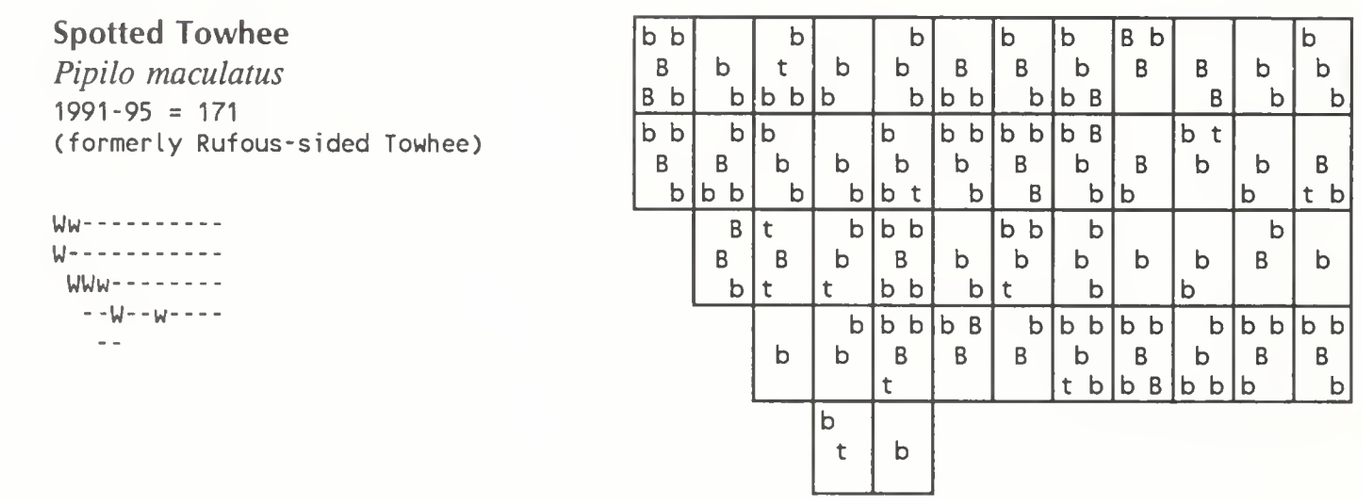
1991-95 = 49



Spotted Towhee

Pipilo maculatus

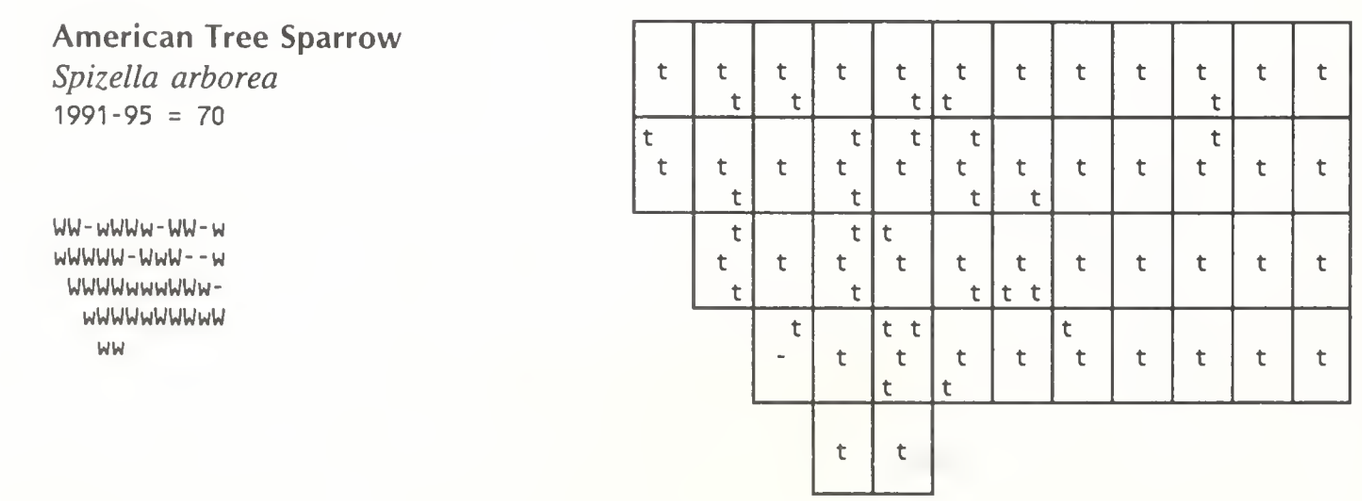
1991-95 = 171
(formerly Rufous-sided Towhee)



American Tree Sparrow

Spizella arborea

1991-95 = 70



Chipping Sparrow
Spizella passerina
1991-95 = 250

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-W----------
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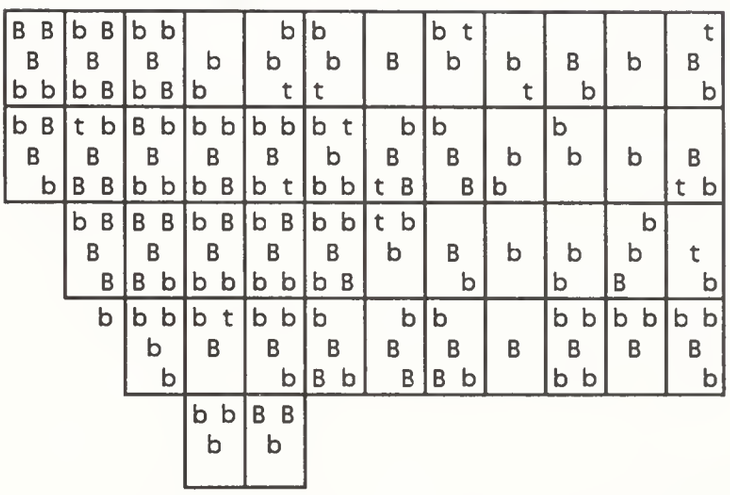

Clay-colored Sparrow
Spizella pallida
1991-95 = 78

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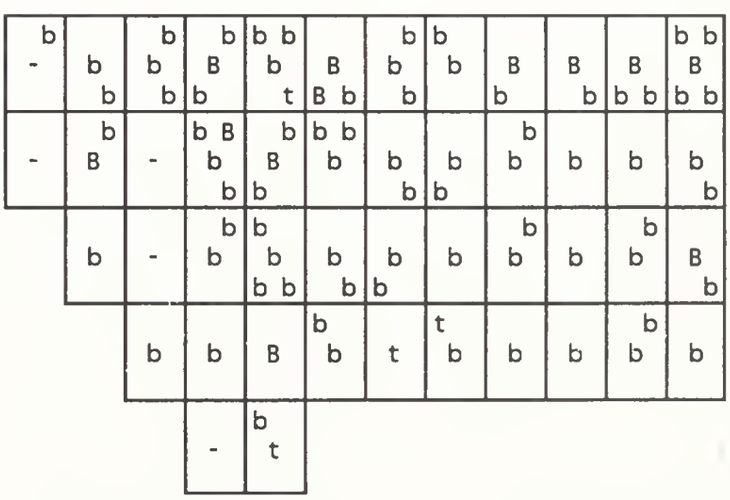

Brewer's Sparrow
Spizella breweri
1991-95 = 71

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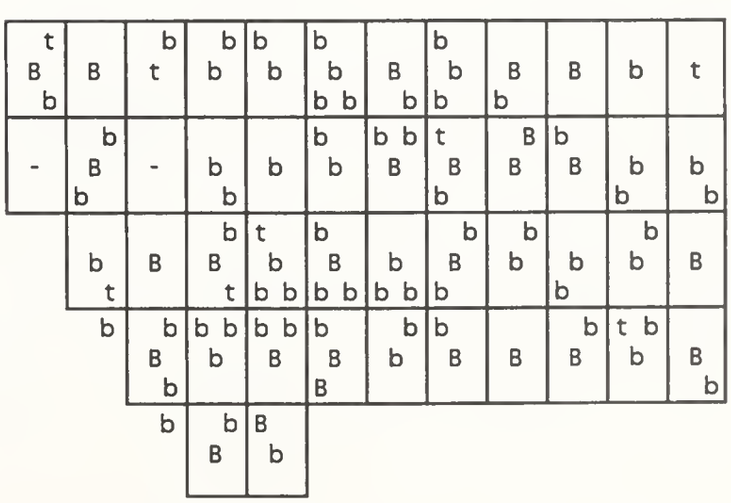
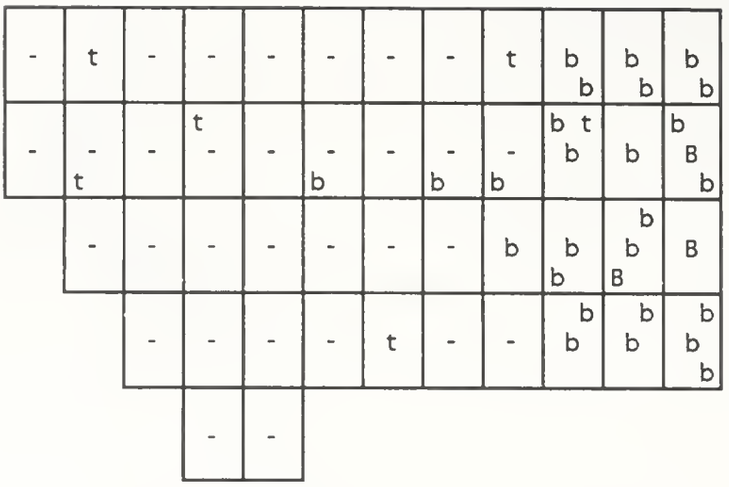


Field Sparrow

Spizella pusilla

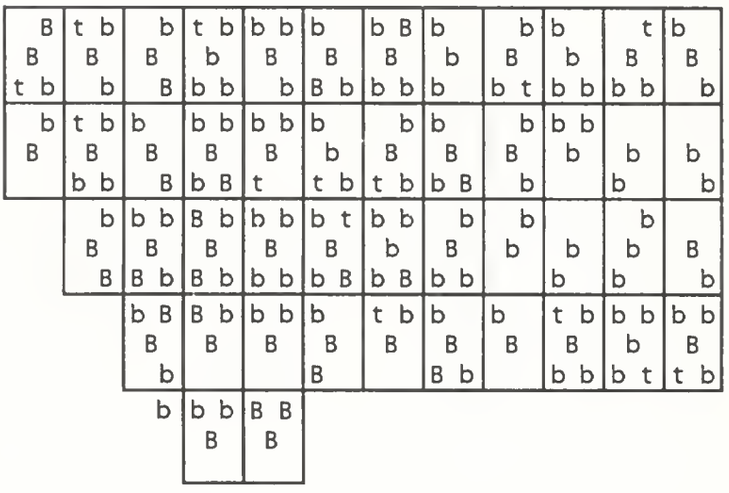
1991-95 = 21



Vesper Sparrow

Pooecetes gramineus

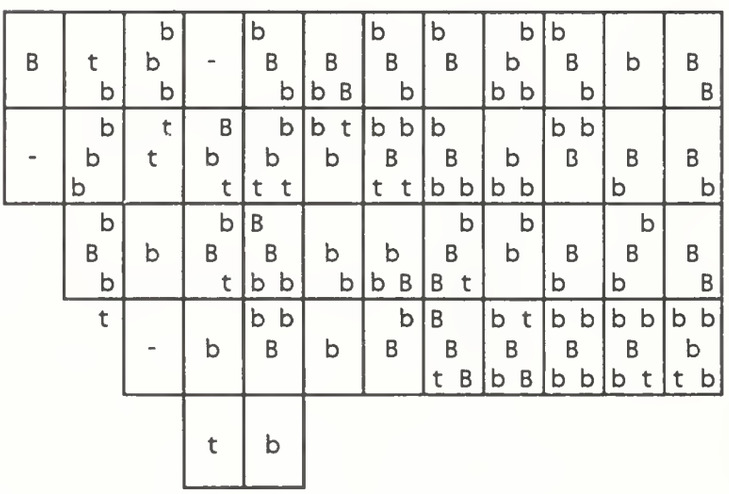
1991-95 = 249



Lark Sparrow

Chondestes grammacus

1991-95 = 124

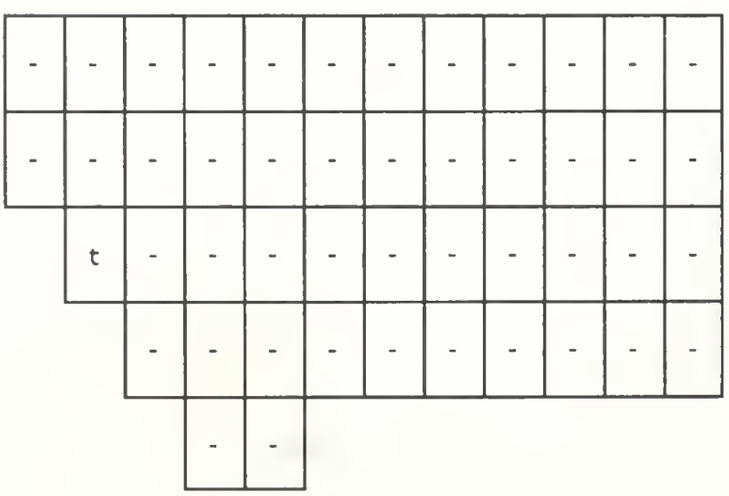


Black-throated Sparrow

Amphispiza bilineata

1991-95 = 0; 1975 - LL 25

n = 2

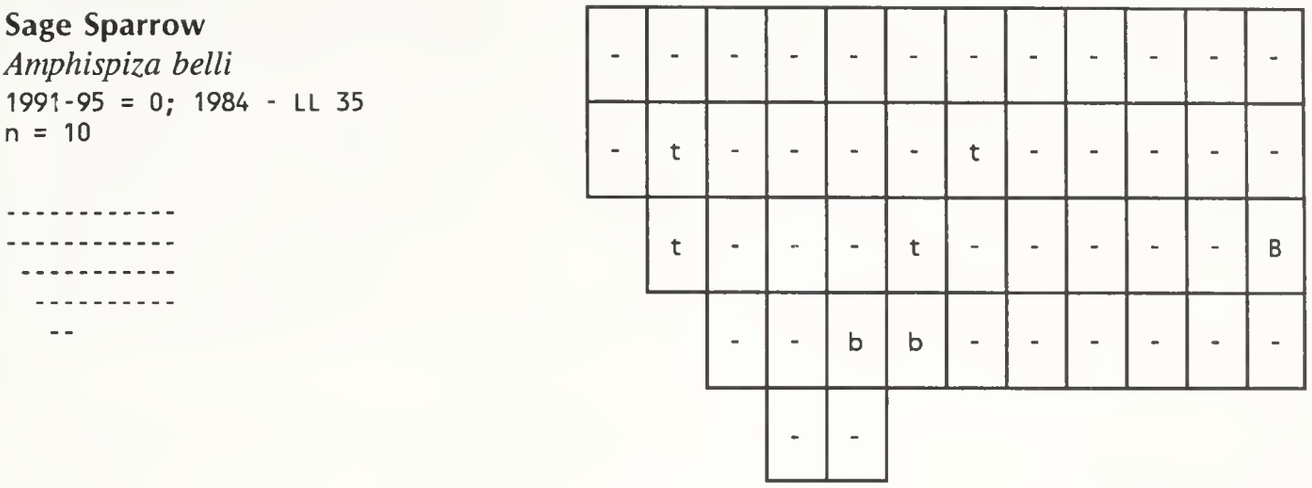


Sage Sparrow

Amphispiza belli

1991-95 = 0; 1984 - LL 35

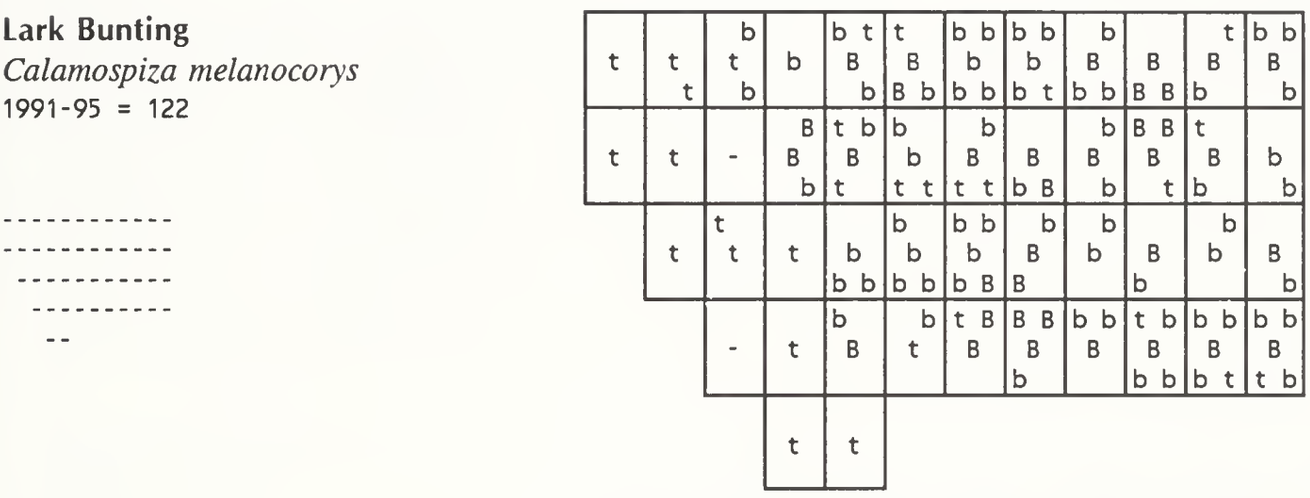
n = 10



Lark Bunting

Calamospiza melanocorys

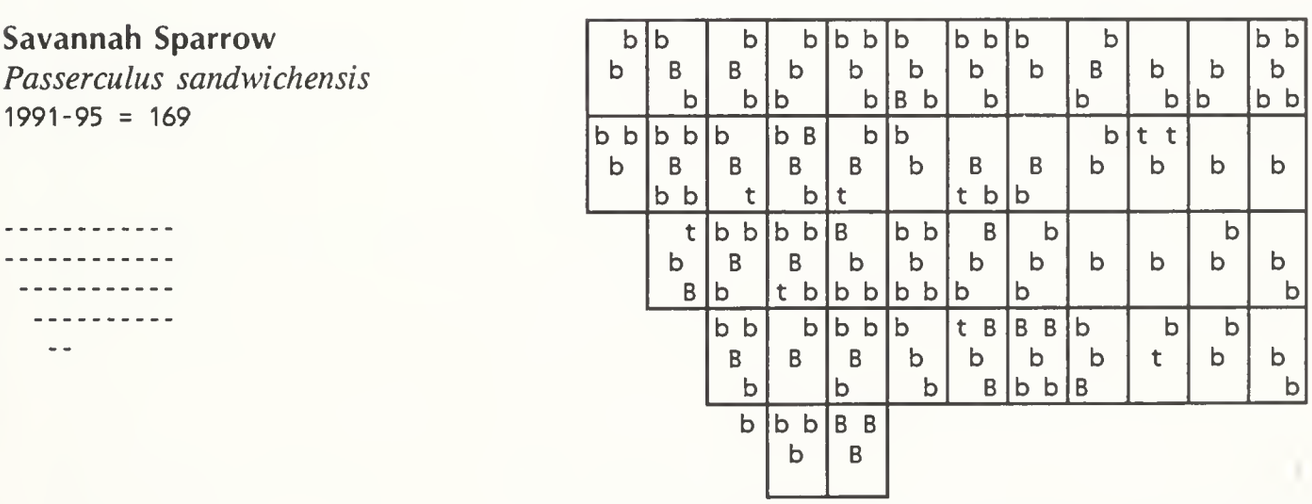
1991-95 = 122



Savannah Sparrow

Passerculus sandwichensis

1991-95 = 169

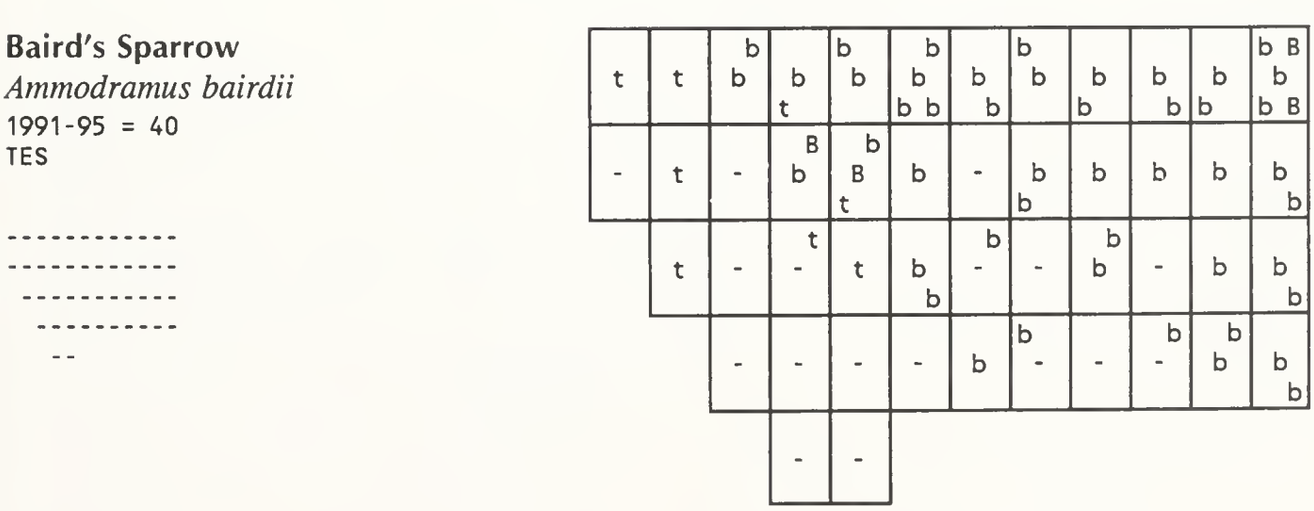


Baird's Sparrow

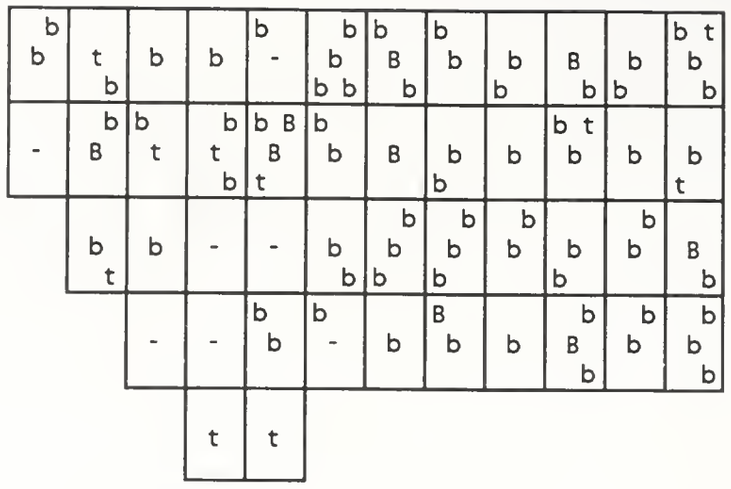
Ammodramus bairdii

1991-95 = 40

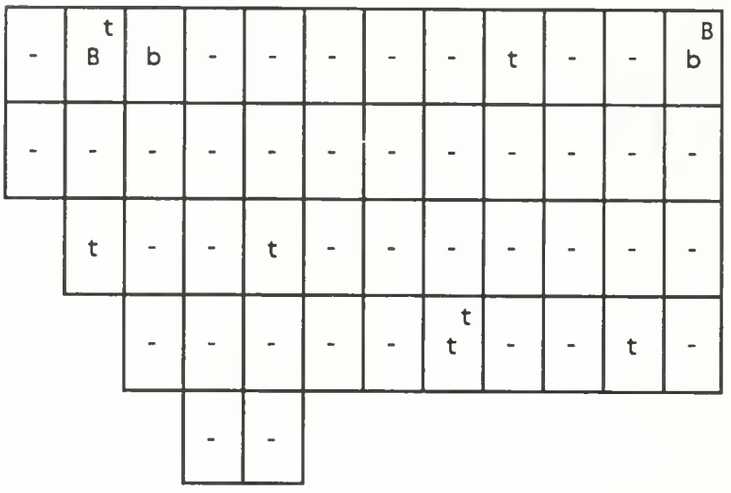
TES



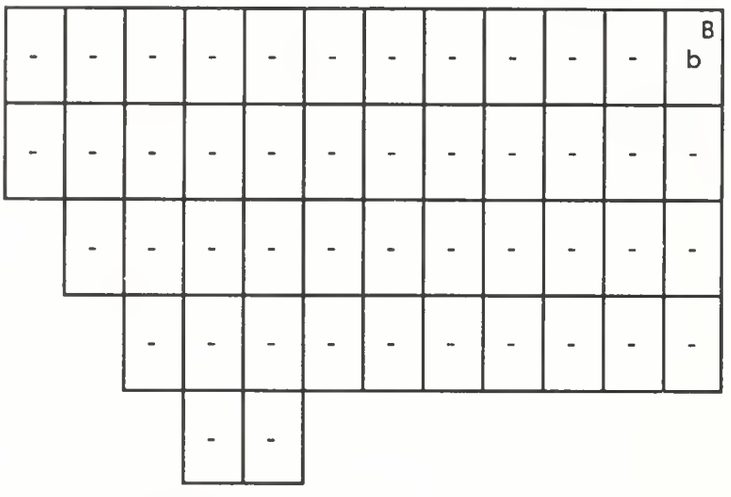
Grasshopper Sparrow
Ammodramus savannarum
1991-95 = 56



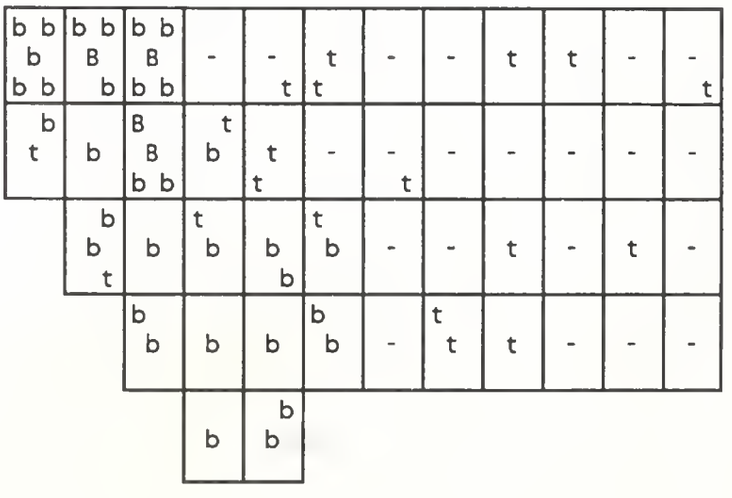
Le Conte's Sparrow
Ammodramus leconteii
1991-95 = 3; 1995 - QLL 12B
n = 20
TES



Nelson's Sharp-tailed Sparrow
Ammodramus nelsoni
1991-95 = 1; 1995 - QLL 12B
n = 4
TES
(formerly Sharp-tailed Sparrow)



Fox Sparrow
Passerella iliaca
1991-95 = 55

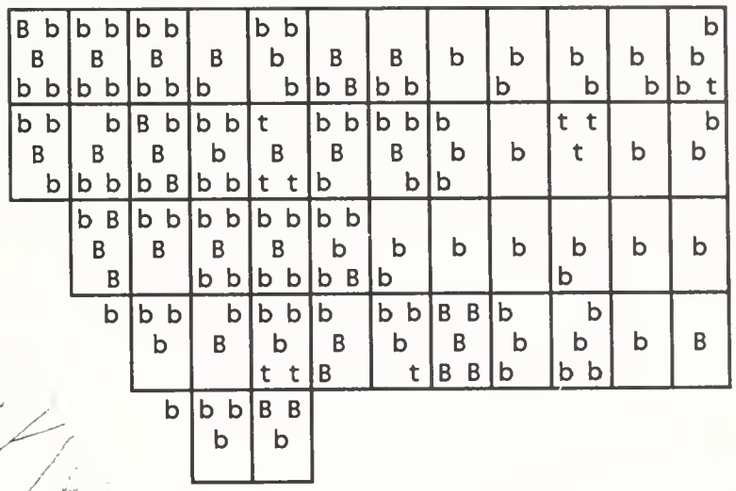


Song Sparrow

Melospiza melodia

1991-95 = 229

```
WW---W---W--
WWW-W-W-----
 WWWW---W-W-
  -WWWWW-W--
   -W
```

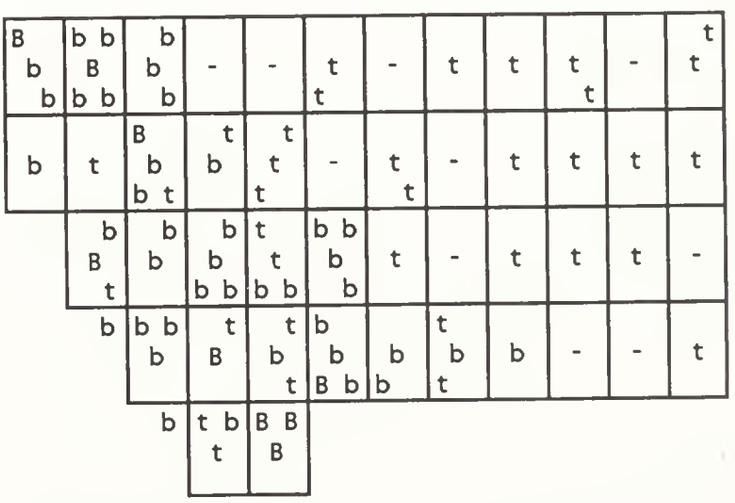


Lincoln's Sparrow

Melospiza lincolnii

1991-95 = 76

```
----------
----------
 ----------
  ----------
   --
```



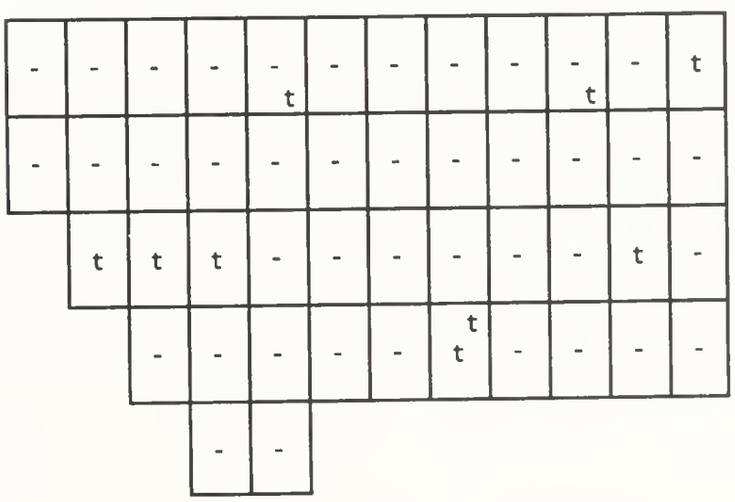
Swamp Sparrow

Melospiza georgiana

1991-95 = 3; 1995 - QLL 5D

n = 11

```
----------
----------
 -W--------
  ----------
   --
```

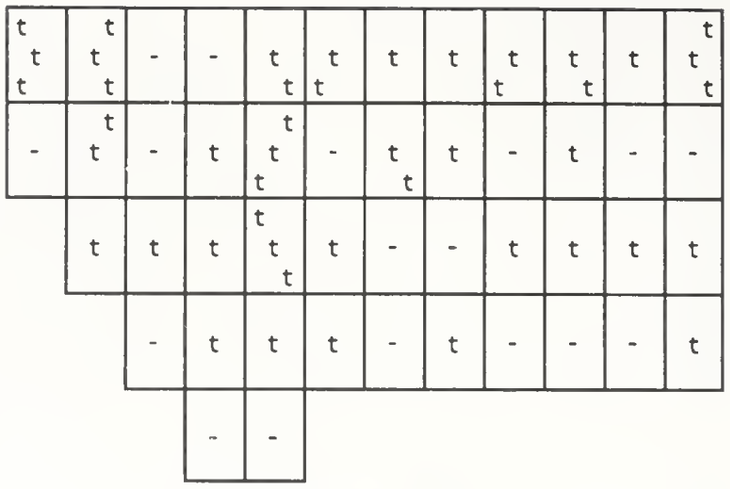


White-throated Sparrow

Zonotrichia albicollis

1991-95 = 28

```
wW----------
--W---------
 WWW--------
  --WW-W----
    --
```



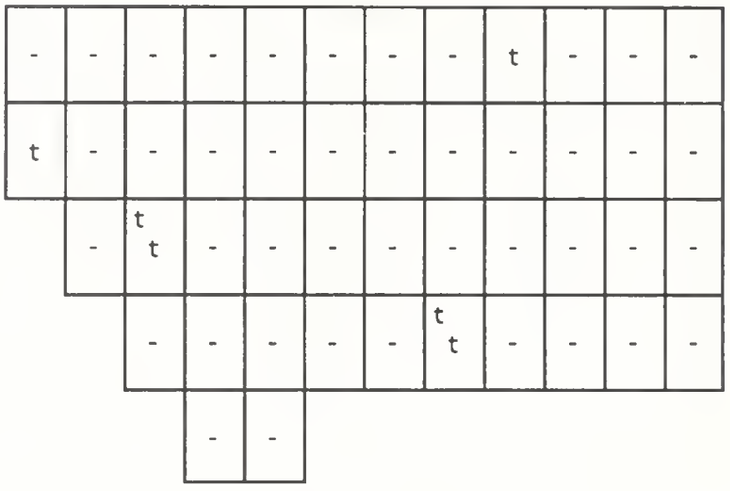
Golden-crowned Sparrow

Zonotrichia atricapilla

1991-95 = 4; 1995 - QLL 41A

n = 8

```
w--------w--
------------
 -----------
  ----------
    --
```

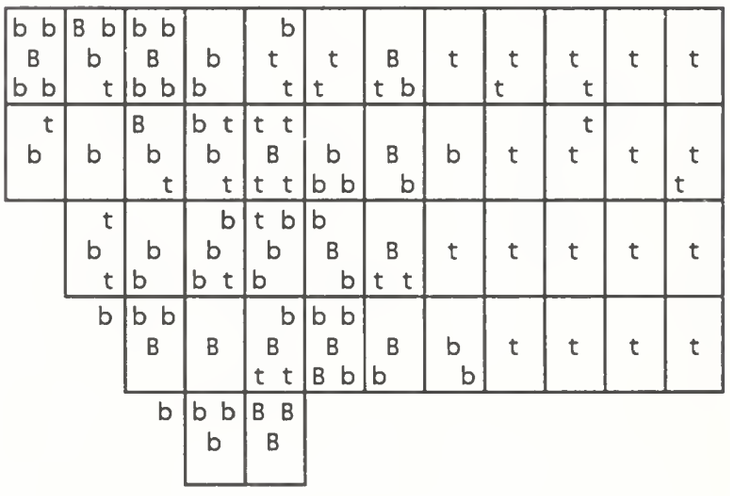


White-crowned Sparrow

Zonotrichia leucophrys

1991-95 = 120

```
ww---w------
--w---------
 W--w-------
  --WW-w----
    -w
```

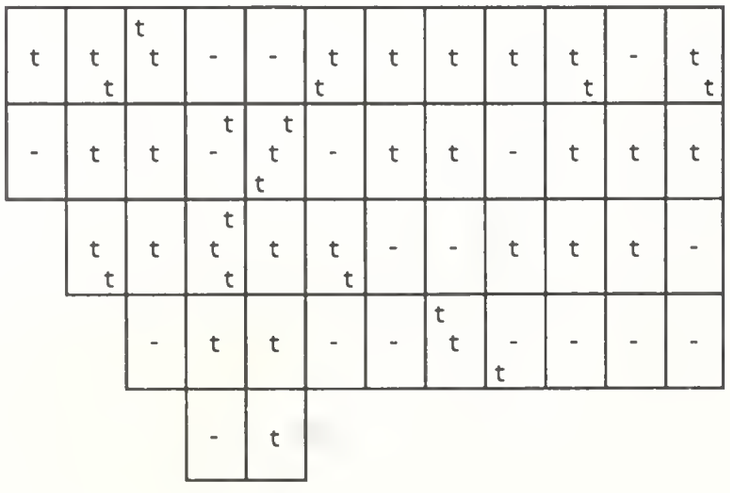


Harris' Sparrow

Zonotrichia querula

1991-95 = 32

```
wW---W--W--W
-WWW--w-----
 WWww----Ww-
  WWWWW-----
    --
```

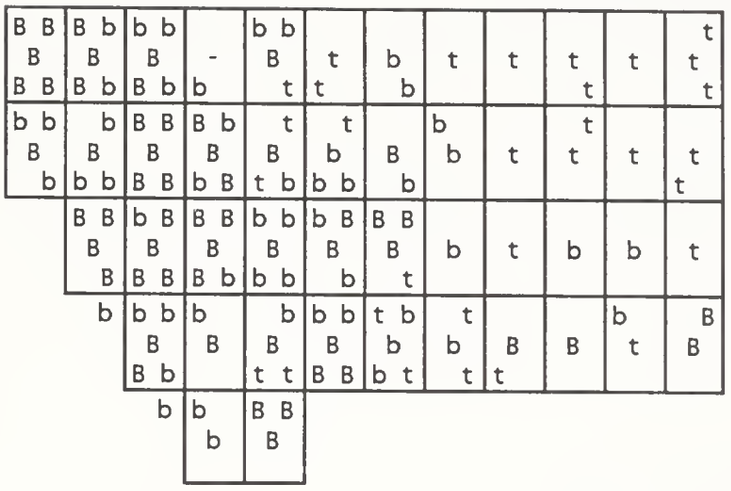


Dark-eyed Junco

Junco hyemalis

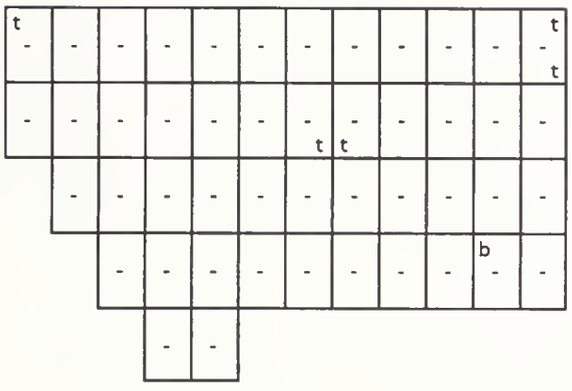
1991-95 = 246

```
WWW-W---WW-w
WWW-w-W----w
 WWWW--WWWW-
  -WWW-W-W-W
   -w
```



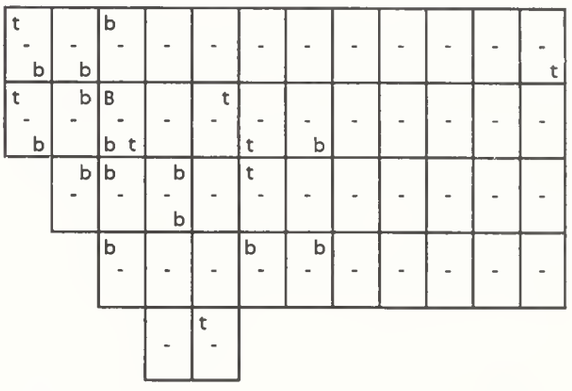
Slate-colored Junco

Junco hyemalis hyemalis



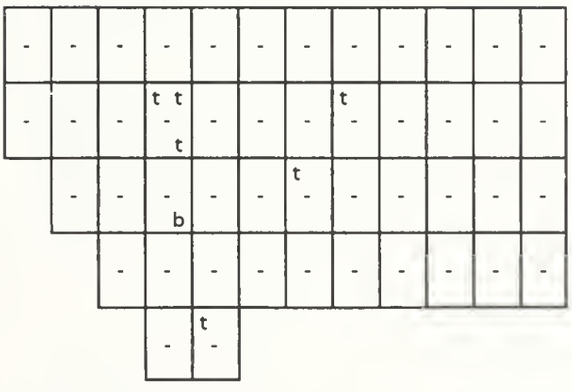
Oregon (Montana) Junco

Junco hyemalis oreganus



Pink-sided Junco

Junco hyemalis mearnsi



Grey-headed Junco

Junco hyemalis caniceps

(none)

White-winged Junco

Junco hyemalis aikeni

(none)

McCown's Longspur

Calcarius mccownii

1991-95 = 39

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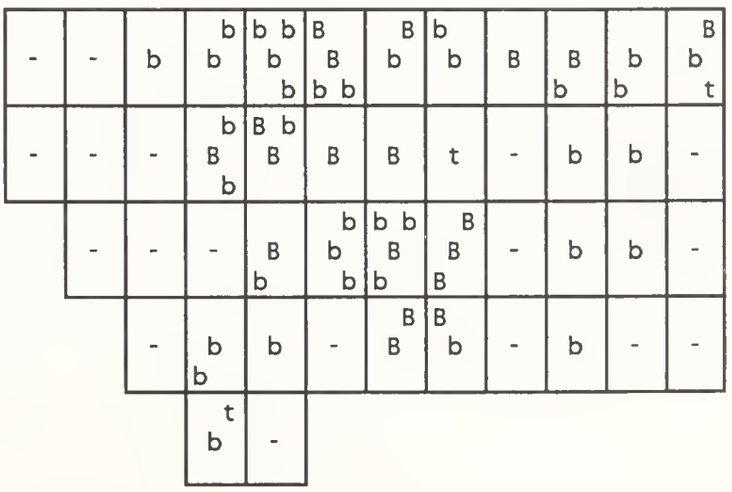
  ----------
   --
```

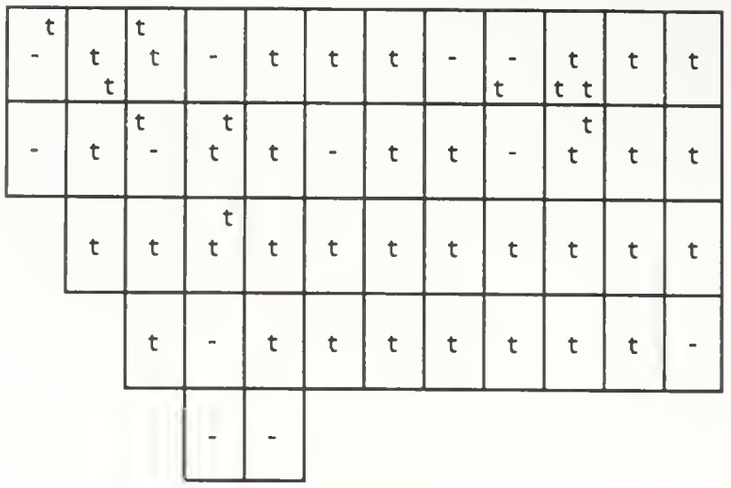


Lapland Longspur

Calcarius lapponicus

1991-95 = 21

```
-W--WWW--WW-
-W-ww--W-WWW
 --wWww-wwww
  --Wwww-www
    --
```



Smith's Longspur

Calcarius pictus

1991-95 = 0; 1977 - LL 44

n = 4

```
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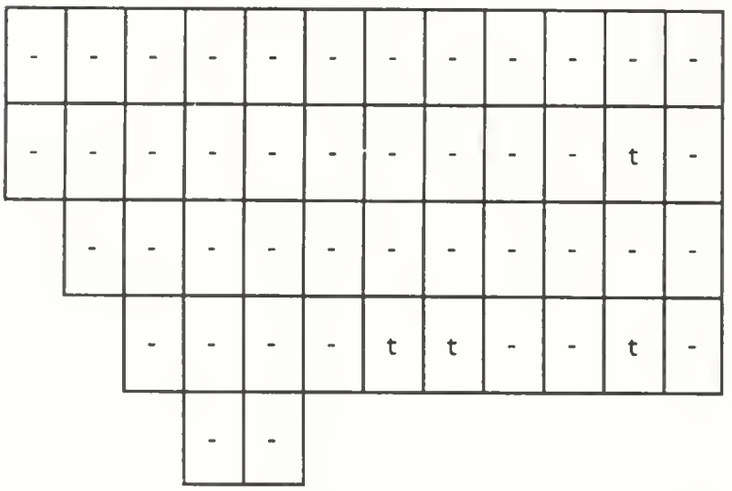
-----------
 ----------
  ----------
    --
```

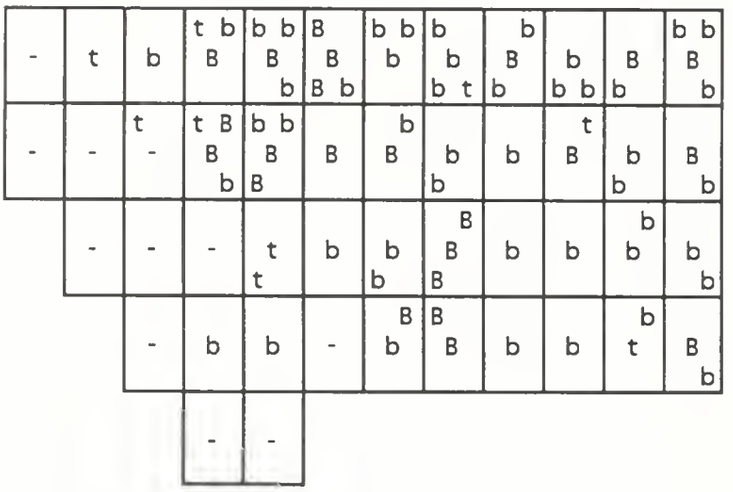


Chestnut-collared Longspur

Calcarius ornatus

1991-95 = 68

```
-----------
-----------
 ----------
  ----------
    --
```

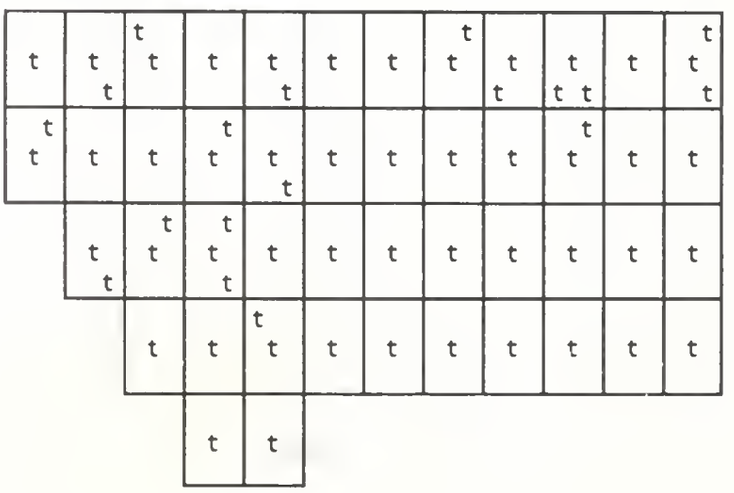


Snow Bunting

Plectrophenax nivalis

1991-95 = 33

```
WWWWWWWWWWW
WWWWWWWWWWW
 WWWW-WWWWWW
  WWWWWWWWW-
    WW
```

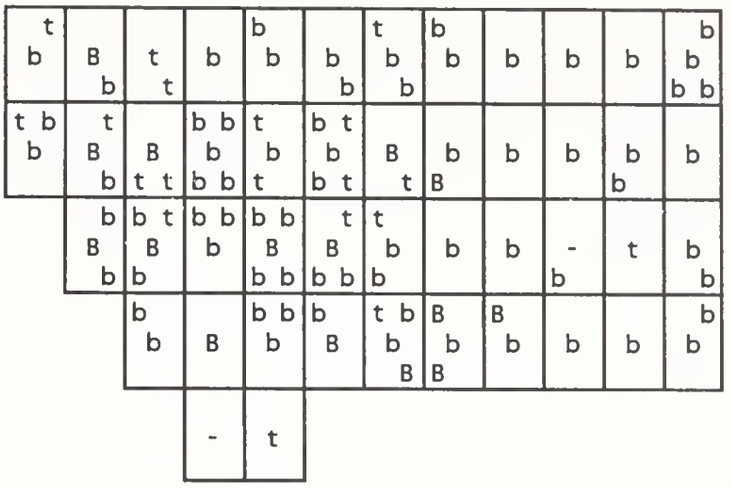


Bobolink

Dolichonyx oryzivorus

1991-95 = 98

```
----------
----------
 ----------
  ----------
   --
```

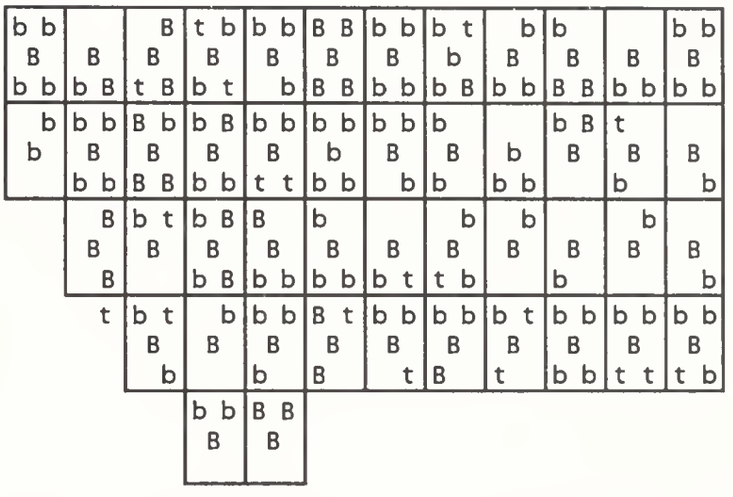


Red-winged Blackbird

Agelaius phoeniceus

1991-95 = 306

```
WWW-W-w-WWW-
-WW---W----W
 WWWW---WWW-
  W-WW-W----
   -W
```

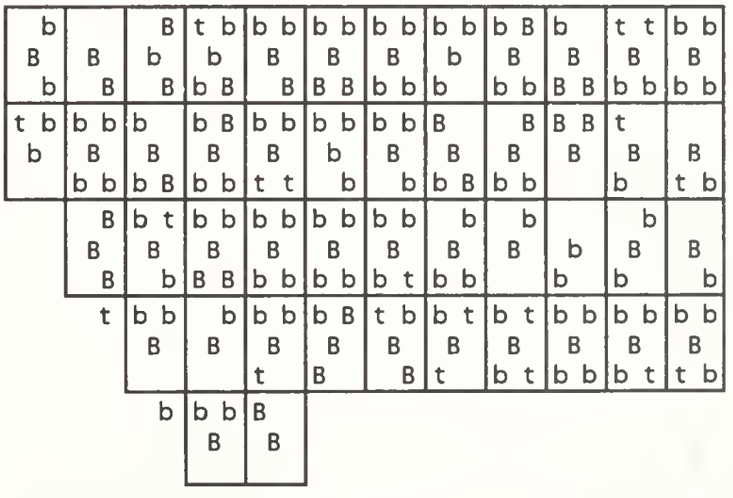


Western Meadowlark

Sturnella neglecta

1991-95 = 328

```
Ww--WW--ww--
-W--W-------
 W--W-w-WWWW
  -WWW-W----
   -W
```

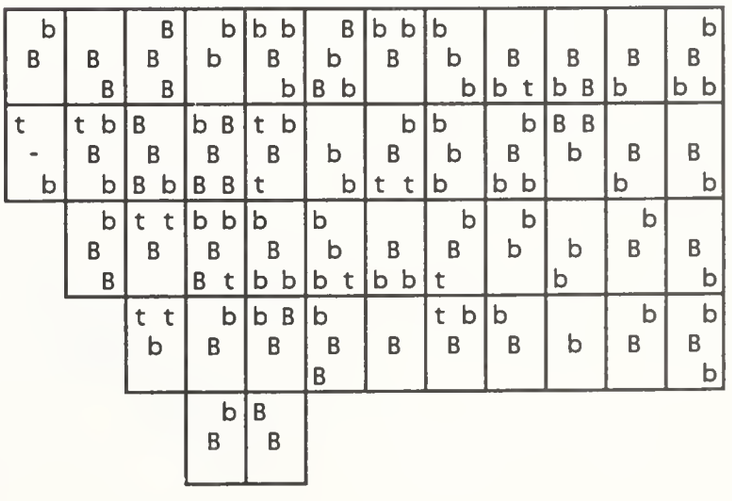


Yellow-headed Blackbird

Xanthocephalus xanthocephalus

1991-95 = 153

```
-W----------
-W----------
 W-W--------
  -----W----
   --
```

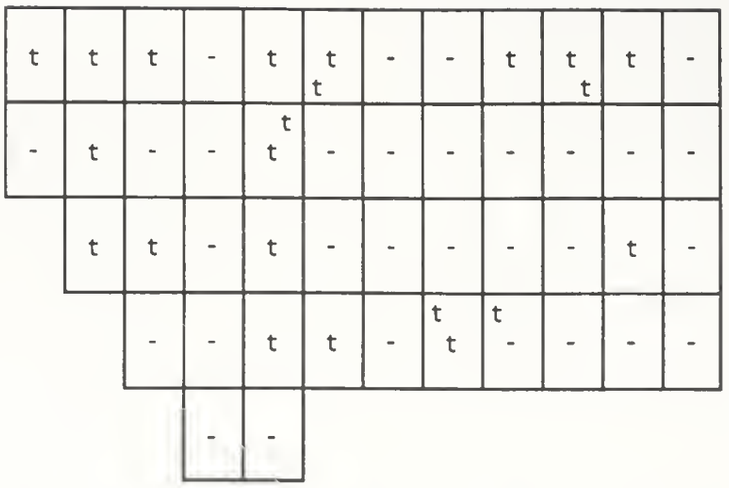


Rusty Blackbird

Euphagus carolinus

1991-95 = 8

```
-W--W---Ww--
------w-----
 ---W-------
  --Ww-W---w
    --
```

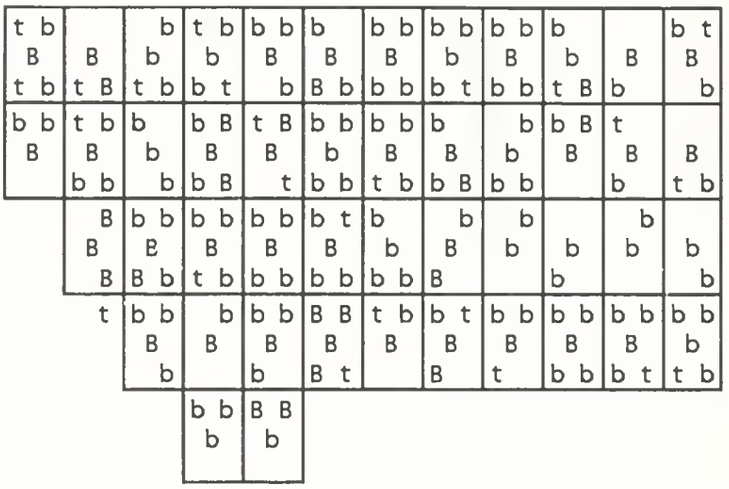


Brewer's Blackbird

Euphagus cyanocephalus

1991-95 = 278

```
wwWw----w---
---w-W------
 W--W-----ww
  --Ww-W-w--
    --
```

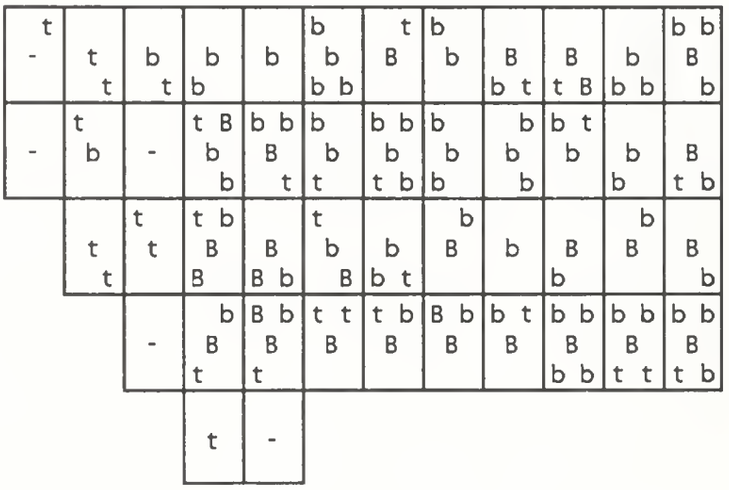


Common Grackle

Quiscalus quiscula

1991-95 = 122

```
---------w--
------w----w
 w----------
  --WW-w----
    --
```

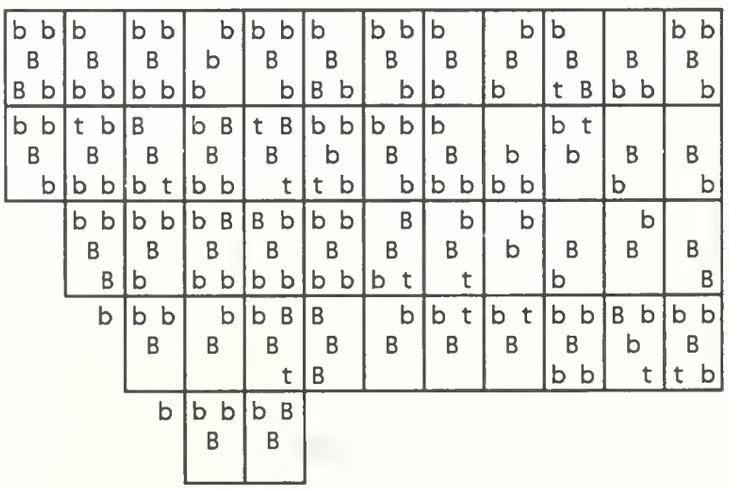


Brown-headed Cowbird

Molothrus ater

1991-95 = 251

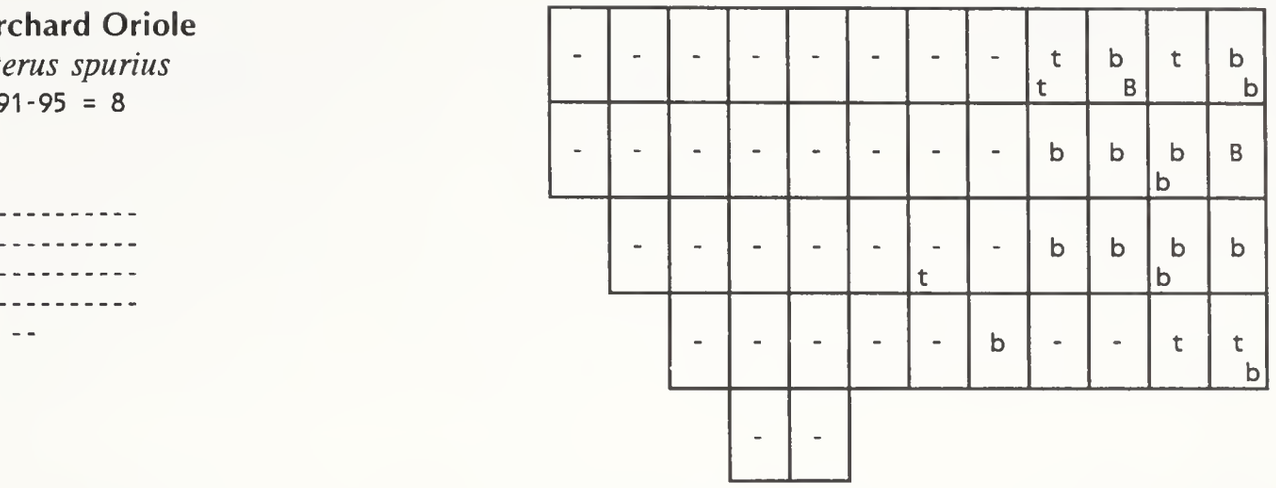
```
-W---w------
------------
 ---w-------
  -w---w----
    --
```



Orchard Oriole

Icterus spurius

1991-95 = 8

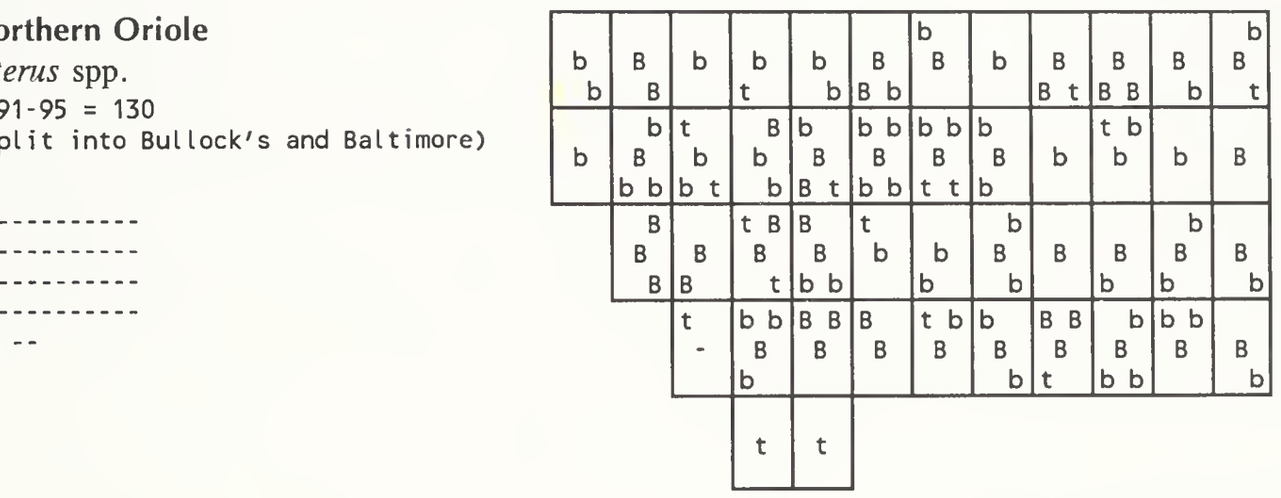


Northern Oriole

Icterus spp.

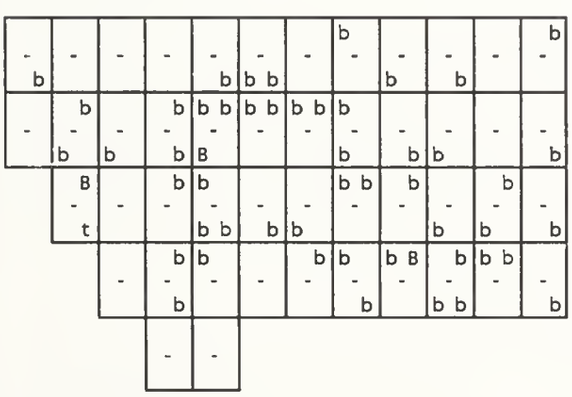
1991-95 = 130

(split into Bullock's and Baltimore)



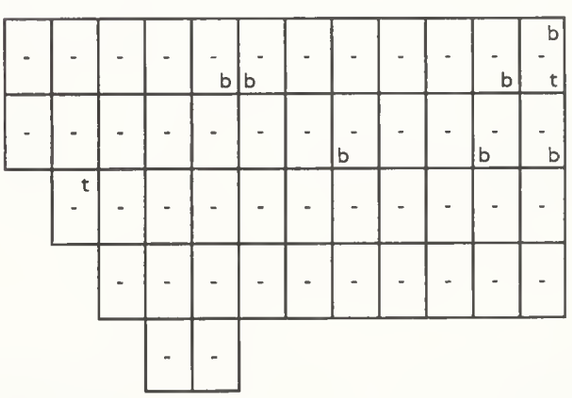
Bullock's Oriole

Icterus bullockii



Baltimore Oriole

Icterus galbula



■ Fringillidae

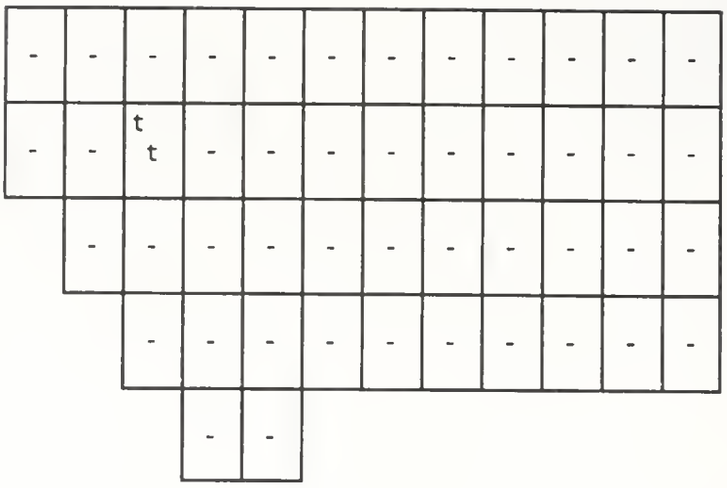
Brambling

Fringilla montifringilla

1991-95 = 2; 1993 - QLL 2D

n = 3

```
-W----------
-----------
 ----------
  ----------
   --
```

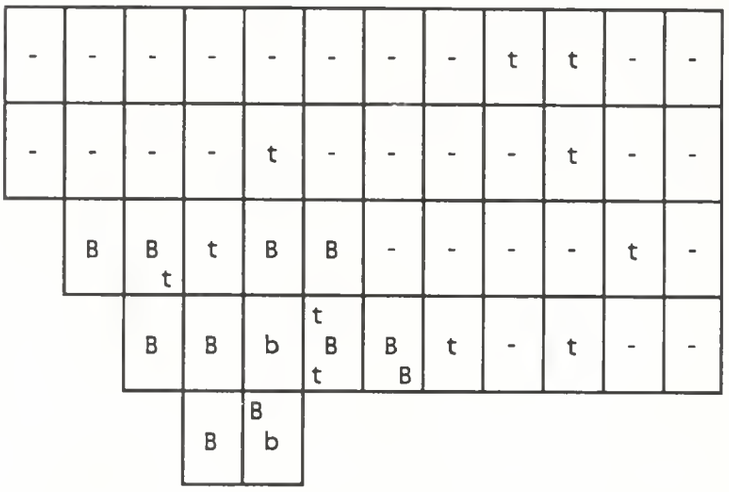


Black Rosy-Finch

Leucosticte atrata

1991-95 = 10

```
-----------
----w-------
 --ww-w-----
  -www-w-w-W
   -W
```

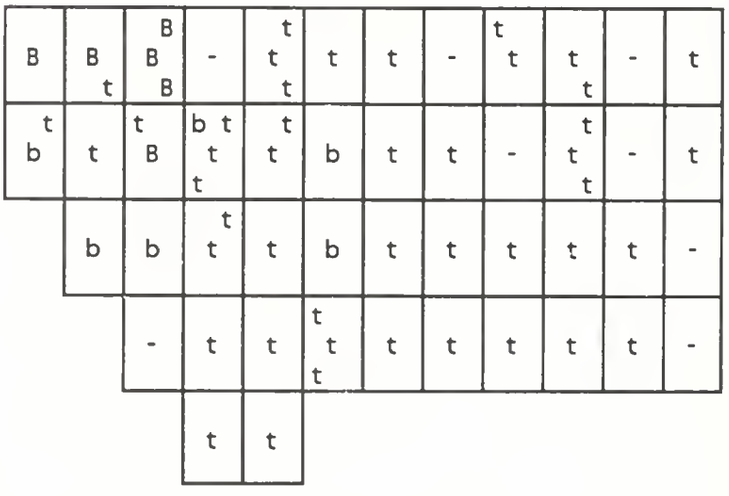


Grey-crowned Rosy-Finch

Leucosticte tephrocotis

1991-95 = 36

```
WWW-WWW-ww-w
-WWWWWWW---W
 W-WWW--WWW-
  -WWWWWWWWW
   -W
```

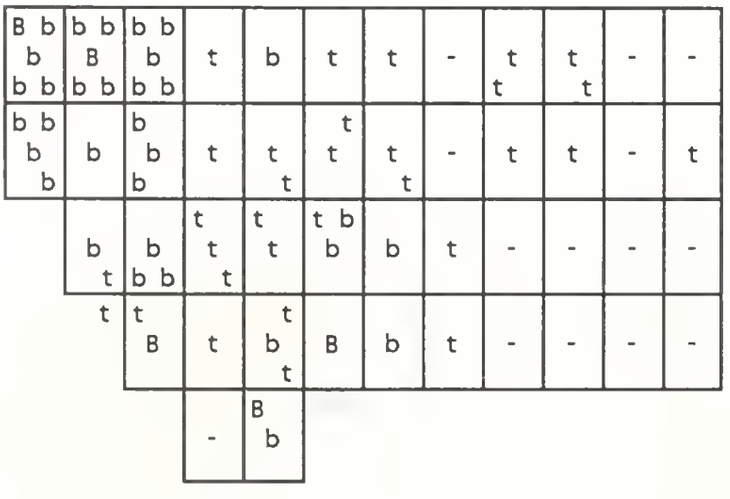


Pine Grosbeak

Pinicola enucleator

1991-95 = 66

```
WWW-W-w-ww--
WWW-WWW-w---
 WWWW--w---w
  wwWWWW----
   -W
```

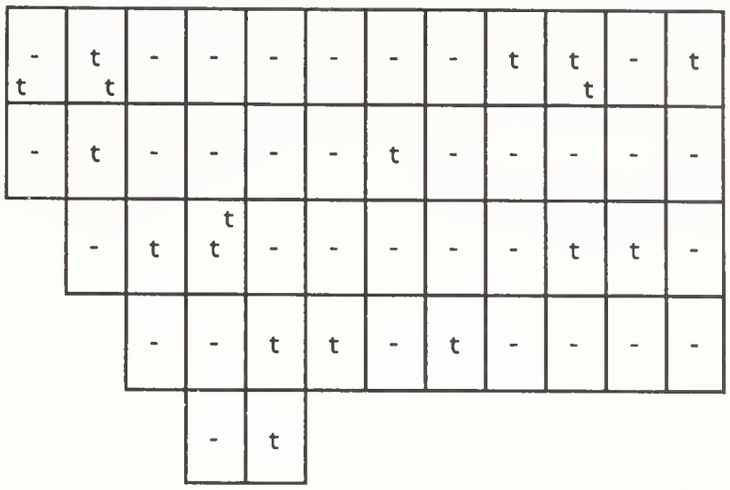


Purple Finch

Carpodacus purpureus

1991-95 = 6

```
-w------ww--
------w-----
 -w------w--
  --ww-w----
   --
```

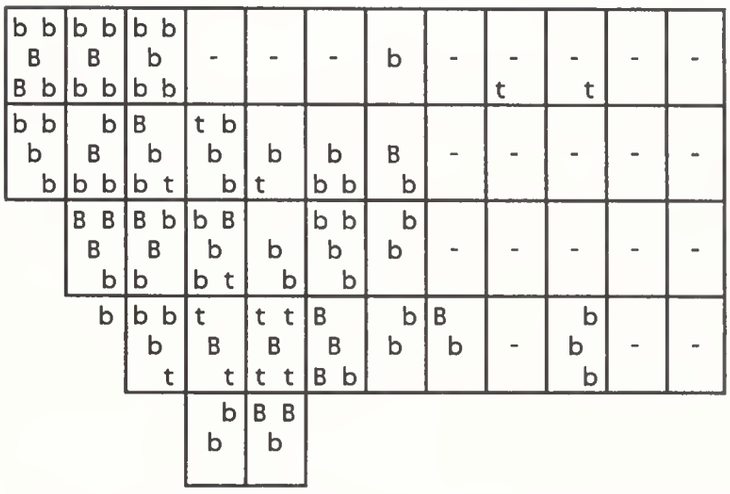


Cassin's Finch

Carpodacus cassinii

1991-95 = 134

```
WWW-----w---
WWW---w-----
 WWW--------
  -WWW-W-W--
   -w
```

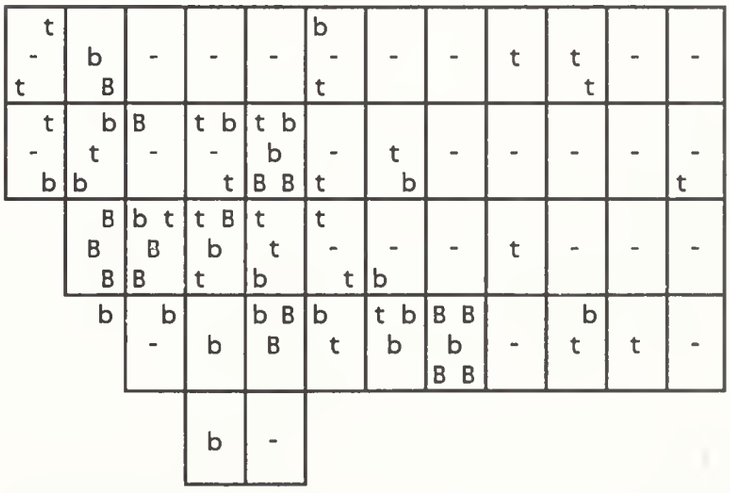


House Finch

Carpodacus mexicanus

1991-95 = 110

```
-W----------
WW--w-w-----
 WWW--------
  --WW-W----
   --
```



Red Crossbill

Loxia curvirostra

1991-95 = 137

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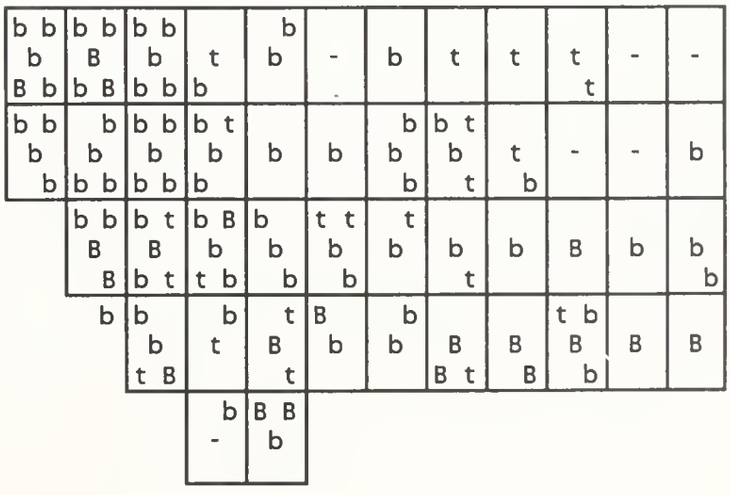
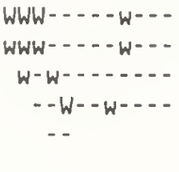
WWW-WWW---W
 WWWW-W----w
  --W--W---W
   -W
```

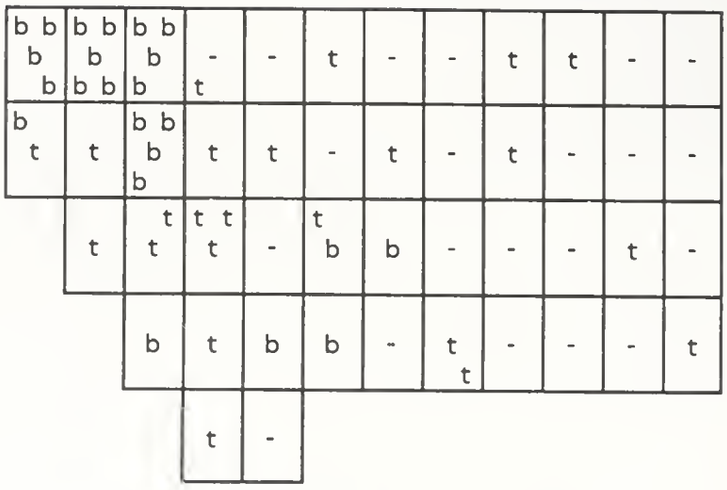


White-winged Crossbill

Loxia leucoptera

1991-95 = 33

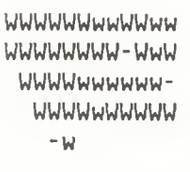


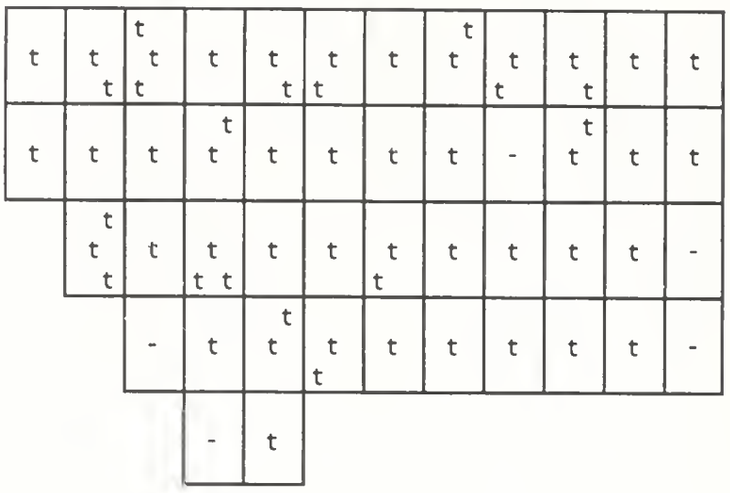


Common Redpoll

Carduelis flammea

1991-95 = 51

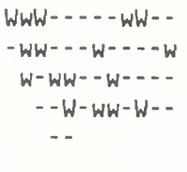


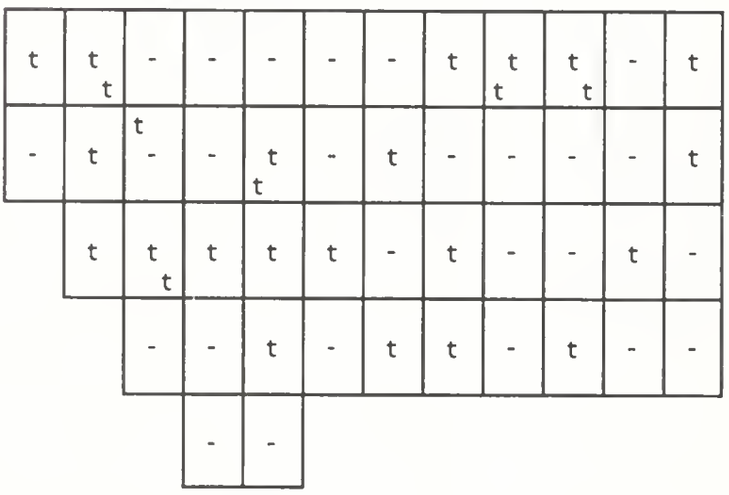


Hoary Redpoll

Carduelis hornemanni

1991-95 = 10

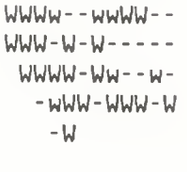


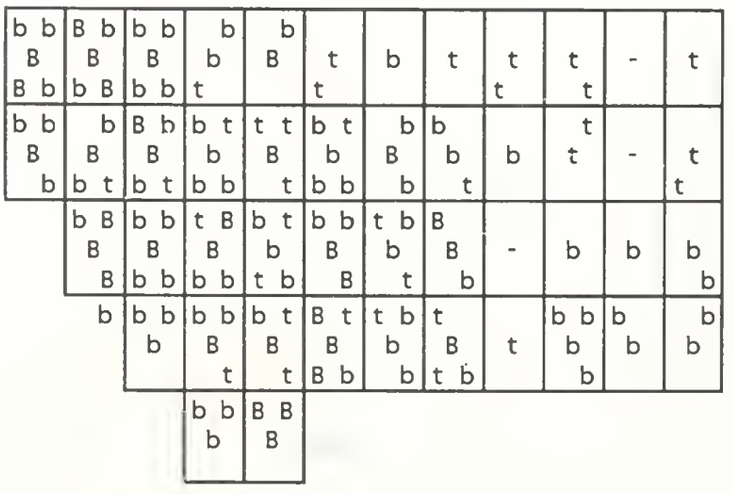


Pine Siskin

Carduelis pinus

1991-95 = 233





American Goldfinch

Carduelis tristis

1991-95 = 212

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WW----------
Www-w-------
 WWww-------
  -WWW-w----
   --
```

Evening Grosbeak

Coccothraustes vespertinus

1991-95 = 141

```
WWW-WWWWWW-w
WWW-WWW-W---
 WWWW-W-w--w
  -WWW-W-WWW
   --
```

■ Passeridae

House Sparrow

Passer domesticus

1991-95 = 170

```
WWWWWWWWWWWW
WWWWWWWWWWWW
 WWWWwwWWWW
  -WWWWWWWW
   -w
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Appendix A. Threatened, Endangered and Sensitive Species (TES) and Species Requiring Supplemental Information (SI)

Detailed information, especially breeding records, is requested for all of the species found in this Appendix (for information format, see *Sensitive Species* on pages 10 - 11).

Species considered **threatened, endangered** or **sensitive (TES)** in Montana or throughout their range are listed below. Species assigned to this category are one of the following: federally recognized endangered or threatened species under the Endangered Species Act; U.S. Forest Service sensitive species, as assigned by the Regional Forester; or species of special concern, recognized by the Montana Natural Heritage Program. These lists are subject to change. For current information, contact the U.S. Fish & Wildlife Service, U.S. Forest Service, or Montana Natural Heritage Program.

Species for which **supplemental information (SI)** is requested are also listed below. These are generally species that are poorly known in the state or have unique breeding habits that warrant further study.

"TES" Species

Common Loon
Clark's Grebe
American White Pelican*
Black-crowned Night-Heron*
White-faced Ibis*
Trumpeter Swan
Harlequin Duck
Bald Eagle (T)
Northern Goshawk
Ferruginous Hawk
Peregrine Falcon (E)
Columbian Sharp-tailed Grouse
Yellow Rail
Whooping Crane (E)
Piping Plover (T)
Mountain Plover
Black-necked Stilt*
Franklin's Gull*
Caspian Tern*
Common Tern*
Forester's Tern*
Least Tern (E)
Black Tern*
Yellow-billed Cuckoo
Flammulated Owl
Burrowing Owl
Great Gray Owl
Boreal Owl
Black Swift
Black-backed Woodpecker
Alder Flycatcher
Cassin's Kingbird
Dickcissel
Baird's Sparrow
Le Conte's Sparrow
Sharp-tailed Sparrow

"SI" Species

Double-crested Cormorant*
Great Blue Heron*
Mute Swan
White-tailed Ptarmigan
Ring-billed Gull*
California Gull*
Barn Owl
Eastern Screech-Owl
Western Screech-Owl
Northern Hawk-Owl
Blue-gray Gnatcatcher
Loggerhead Shrike
Tennessee Warbler
Black-and-white Warbler

T = Species considered threatened under the Endangered Species Act.
E = Species considered endangered under the Endangered Species Act.
* = Colonial nesting birds for which nesting information is needed.

Appendix B. Species for Which Subspecies Information is Needed

It seems likely that one or more of the subspecies listed in this Appendix will be elevated to species status in the near future. Therefore, observations and information on breeding habits of these birds are much needed at the subspecies level. This is especially true for the Solitary Vireo, as scientific evidence currently suggests that it will be divided into at least two species in the near future.

For the first time, this book provides maps displaying both species and subspecies distribution for the birds listed in this Appendix. Bird distribution maps were created for each subspecies to encourage birdwatchers to submit future records at the subspecies level. No subspecies maps appear for the following subspecies or forms because of a lack of data: White-winged and Gray-headed subspecies of the Dark-eyed Junco; and Gray-crowned and Gray-headed (Hepburn's) forms of the Gray-crowned Rosy-Finch.

The reason for requesting subspecies information is illustrated by two changes made since the last edition of this book. Both the Rosy Finch and the Northern Oriole, for which we requested subspecies information in the Fourth Edition, were each officially split into several species (see *Taxonomic Changes and Subspecies* on pages 1 - 2). Few records have been submitted with what was then subspecific designations; hence many of Montana's "Rosy Finch" and "Northern Oriole" records cannot be assigned to either of the currently recognized species.

Species for which information is requested at the subspecies, race or form level:

Northern Flicker
- Red-shafted Flicker
- Yellow-shafted Flicker

Solitary Vireo*
- Cassin's (Western) Vireo
- Plumbeous (Rocky Mountain) Vireo

Yellow-rumped Warbler
- Audubon's Warbler
- Myrtle Warbler

Dark-eyed Junco
- Slate-colored Junco
- Montana (Oregon) Junco
- Pink-sided Junco
- White-winged Junco
- Gray-headed Junco

Gray-crowned Rosy-Finch
- Gray-crowned form
- Gray-headed (Hepburn's) form

The subspecies of these five species are shown in the current edition of several major field guides, with the exception of Cassin's Vireo which is not illustrated in the *Birds of North America* (Robbins et al., 1983).

*Added to this list since the Fourth Edition.

Appendix C. Extinct Species

Only one extinct species has been recorded in Montana: the Passenger Pigeon. The last reported sighting of this bird was by George Suckley on August 30, 1853, in the Bearpaw Mountains (Latilong 7). Earlier records showed the Passenger Pigeon inhabiting latilongs 3, 4, 5, 7, 11, 12, 17, 26, and 41.

Appendix D. Introduced Species in Montana

The following birds are either native North American species transplanted to Montana (*) or not native to North America:

Mute Swan
Gray Partridge
Chukar
Ring-necked Pheasant
Wild Turkey*
Northern Bobwhite*
Rock Dove
European Starling
House Sparrow

Appendix E: Montana Neotropical Migratory Species

There are many birds that are known or suspected to breed in Montana ("B" or "b" records) that spend their winter in the "neotropics" (Central and South America). Recent evidence suggests that populations of some of these bird species may be declining. Thus, a major initiative called "Partners in Flight" has been established for the conservation of migratory land birds that breed in North America and winter in neotropical countries.

Several federal land management agencies, conservation groups, state fish and wildlife agencies, and scientists have joined in a collaborative effort to determine the causes for declines in our migratory bird populations and to work towards conservation of all landbirds in the state. Part of this effort involves identification of species vulnerable to declines from either of the two primary causes suggested: fragmentation of breeding habitat in the United States and Canada, and loss of wintering habitat in Mexico, Central and South America, and the Caribbean.

We have listed the Neotropical Migratory Bird species known to occur in Montana, including both long- and short-distance migrants. Wintering zones for species are identified and described in the "Conservation" subheading of *The Birder's Handbook* (Ehrlich et al. 1988) and *Neotropical Migrant Landbirds in the Northern Rockies and Great Plains* (Dobkin, 1992).

Turkey Vulture
Osprey
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Swainson's Hawk
Red-tailed Hawk
Ferruginous Hawk
Golden Eagle
American Kestrel
Merlin
Peregrine Falcon
Prairie Falcon
Killdeer
Mountain Plover
Willet
Spotted Sandpiper

Upland Sandpiper
Long-billed Curlew
Marbled Godwit
Mourning Dove
Black-billed Cuckoo
Yellow-billed Cuckoo
Flammulated Owl
Burrowing Owl
Long-eared Owl
Short-eared Owl
Common Nighthawk
Common Poorwill
Black Swift
Chimney Swift
Vaux's Swift
White-throated Swift
Ruby-throated Hummingbird
Black-chinned Hummingbird
Calliope Hummingbird
Broad-tailed Hummingbird
Rufous Hummingbird
Belted Kingfisher
Lewis' Woodpecker
Red-naped Sapsucker
Williamson's Sapsucker
Northern Flicker
Olive-sided Flycatcher
Western Wood-Pewee
Alder Flycatcher
Willow Flycatcher
Least Flycatcher
Hammond's Flycatcher
Dusky Flycatcher
Cordilleran Flycatcher
Say's Phoebe
Cassin's Kingbird
Western Kingbird
Eastern Kingbird
Horned Lark
Purple Martin
Tree Swallow
Violet-green Swallow
Northern Rough-winged Swallow
Bank Swallow
Cliff Swallow
Barn Swallow
Brown Creeper
Rock Wren
House Wren
Sedge Wren
Marsh Wren
Ruby-crowned Kinglet
Golden-crowned Kinglet
Eastern Bluebird
Western Bluebird
Mountain Bluebird
Townsend's Solitaire
Veery
Swainson's Thrush
Hermit Thrush
American Robin
Gray Catbird
Northern Mockingbird
Sage Thrasher
American Pipit
Sprague's Pipit
Cedar Waxwing
Loggerhead Shrike
Solitary Vireo
Warbling Vireo
Red-eyed Vireo
Tennessee Warbler
Orange-crowned Warbler
Nashville Warbler
Yellow Warbler
Yellow-rumped Warbler
Townsend's Warbler
Black-and-white Warbler
American Redstart
Ovenbird
Northern Waterthrush
MacGillivray's Warbler
Common Yellowthroat
Wilson's Warbler
Yellow-breasted Chat
Western Tanager
Black-headed Grosbeak
Lazuli Bunting
Indigo Bunting
Dickcissel
Green-tailed Towhee
Spotted Towhee
Chipping Sparrow
Clay-colored Sparrow
Brewer's Sparrow
Vesper Sparrow
Lark Sparrow
Sage Sparrow
Lark Bunting
Savannah Sparrow
Baird's Sparrow
Grasshopper Sparrow
Fox Sparrow
Song Sparrow
Lincoln's Sparrow
White-crowned Sparrow
Dark-eyed Junco
McCown's Longspur
Chestnut-collared Longspur
Bobolink
Red-winged Blackbird
Western Meadowlark
Yellow-headed Blackbird
Brewer's Blackbird
Brown-headed Cowbird
Orchard Oriole
Baltimore Oriole
Bullock's Oriole
Cassin's Finch
Pine Siskin
American Goldfinch

Montana's Partners in Flight is particularly concerned about grassland and riparian birds because these two important bird habitats are threatened. In addition, grassland birds are showing declines in their populations. Information and activities directed at bird conservation are being developed in Montana including educational material, monitoring activities, national and international partnerships, studies of habitat relationships, and development of management guidelines. For more information on local activities, contact Montana Partners in Flight, Daniel Casey (Chair), Montana Fish, Wildlife & Parks, 490 N. Meridian, Kalispell, MT 59901.

Appendix F. Hypothetical Species

Currently all reports of rare birds, including birds not previously reported for Montana, must be reviewed and accepted by the Montana Bird Records Committee before they are added to the Montana Bird Distribution Database. The Records Committee requires the following criteria for approving first state records: a specimen, a definitive photograph, or independent documentation by two or more skilled observers.

"Hypothetical" species are species that have been reported in Montana, but whose reports have not been accepted by either the Records Committee or previous compliers of Montana Bird Distribution. The species listed below are segregated into three groups. The first includes species with acceptable reports of a sighting by only a single observer. The second includes species for which the identification is possible but not certain. The last includes species carried over from previous editions that have not been reviewed under the current criteria established by the Records Committee. The year and location (latilong or quarter latilong) for the latest observation follows the bird's name. Additional species have been reported, but without sufficient information to warrant inclusion here.

One Observer Sightings

Red-breasted Sapsucker: 1984 - QLL 27B
Bell's Vireo: 1995 - QLL 24B
Northern Cardinal: 1987 - QLL 42C

Identification Possible But Not Certain

Tufted Duck: 1990 - QLL 16B
King Rail: 1995 - QLL 17B
Pacific Golden-Plover: 1994 - QLL 16B
Ross' Gull: 1987 - QLL 42C
Gray Flycatcher: 1987 - QLL 39C
Dusky Thrush: 1993 - QLL 2A
Virginia's Warbler: 1992 - QLL 25D
Cerulean Warbler: 1992 - QLL 40C
Hooded Oriole: 1995 - QLL 47A

Species from Previous Editions

Common Eider: 1907 - LL 24
Eskimo Curlew: 1973 - LL 12
Spotted Owl: 1976 - LL 3
Phainopepla: LL 3
Blue-winged Warbler: 1984 - LL 41
Painted Bunting: 1978 - LL 43

Appendix G. List of Contributors to the 5th Edition

More Than 1000 Records:

Dan Casey, Harriet Marble, Jim Reichel, Don Stoecker, and Daniel Sullivan.

501 - 1000 Records:

Margaret Adams, Kathleen Anderson, Rob Fergus, Judy Hoy, Cedron Jones, and Michael Schwitters.

101 - 500 Records:

Janissa Balcomb, Clifton Barry, Marcella Bishop, Sharon Browder, Charles Carlson, John Carlson, Kay Casperson, Jill Davies, Dave Dickson, Kirk Eakin, David Ewer, Robert Flores, Betsy Follman, G. J. Frazier, S. J. Gniadek, Deborah Goslin, Jim Greene, Liz Hill, C. J. Hoff, George Holton, Elly Jones, Stephen Martin, Terry McEneaney, Janice Miller, Chris Paige, John Parker, M. Rabenberg, Sue Reel, Katherine Roberts, Bill Roney, Jean Smith, Sally Sovey, J. R. Sparks, Karen Stutzman, and D. C. Tribby.

1 - 100 Records:

Jane Adams, Connie Akers, Dave Allen, Rod & June Ash, Art Aylesworth, Loren Bahls, Beth Baker, Rich Balanger, Pat Barrackman, Pat Bartholomew, Jane Beasley, Stan Beckstrom, Dwight Bergeron, Dwight Bourdin, James Brown, Rick Brown, Lou Bruno, M. Buckley, Marci Bugni, Milo Burchan, T. S. Burns, Scott Buswell, Pat & Rusty Callbeck-Harper, Cate Campbell, Chuck & Suzi Campbell, Tom Carlson, Rick Casper, Chad Castren, W. H. Chadwick, L. R. Clark, Lorraine Clough, Douglas Collister, Ben Conard, Anne Cook, Kenneth Cook, Larry Copenhaver, Chris Cutler, M. Daiber, M. A. Daniels, Clifford Davis, S. Delehanty, Claude Demarest, Wendy Dodson, Pat Dolan, K. Dueholm, Annie Dueker, Janet Ellis, R. L. Eng, Joseph Engler, Kathy Erickson, Roger Evans, Shawneen Finnegan, Bebe Fitzgerald, Bill Fitzgerald, Dennis Flath, Kirk Forkan, T. Fuller, John Gatchell, Randy Gazda, David Genter, J. Giuffre, John Gobeille, Shawn Goodchild, Carrie Goss, Mary Gossi, John Grant, Erick Greene, Patty Groll, T. Gutzke, Jean Habeck, Harvey Hackett, Willa Hall, Graydon Hallock, W. P. Haminer, Ken Hamlin, Ralph Hand, Jim Hansen, D. A. Hanson, Edward Harper, John Hartman, Steve Henderson, Paul Hendricks, Andrew Hicks, Billie Hicks, Troy Hidy, Floran Higgins, Gracia Hilde, Chuck Hinkle, John Hoffland, Denver Holt, R. L. Hutto, Kamal Islam, Jon Jackson, D. James, J. James, Pat Jamieson, Ann Jancic, Barbara Jaquith, Kila Jarvis, Lynn Johnson, Arlo Jones, Michele Kastler, Anne Katsaris, William Kerling, George Kirsch, Craig Knowles, B. Konen, Mark Konop, Shelly Kremer, Marvin Krook, L. Krumwiede, N. Lafon, Lynn Lamb, Douglas Laye, Dawson List, Dave Lockman, David Lubertazzi, Cary Lund, Lynn Lundborg, S. Macioszek, Maria Mantas, Mike Maples, Jeff Marks, John Martin, Neil Martin, Sara Mast, Randall McDonald, Lawrence McEvoy, Chet & Gail McGlothlin, Steve McMorran, Judith McNulty, John McBride, Tom Mears, Donald Miller, Mary Crowe Mitchell, Glee Moore, R. K. Moore, Brookes Morin, George Mowat, Gerald Mueller, Gary Nazada, Alan Nelson, D. Nelson, Nels Nelson, Fletcher Newby, Susan Newell, Robert Niebuhr, Gene & Norma Nixon, Ted Nordhagen, Tricia O'Connor, John Ormiston, Carol Pearson, Elaine Peterson, John Peterson, Wayne Peterson, Robert Petty, J. H. Phelps, Linda Phillips, David Pilliod, Randy Podall, Doug Powless, John Prange, Fritz Prellwitz, J. Rabenberg, Ryan Rauscher, F. Rice, Bob Righter, Randy Riviere, Paul Rodewald, James Rogers, Kari Rogers, Robert Romero, John Rumely, J. Runge, Stanley Russel, R. Sanchez, Winnie Schreiber, Susan Schultz, Ann Scofield, Bob Seidel, John Shaw, Fred Simonsen, Don Skaar, Naomi Smith, Kathy Stirner, J. M. Story, Zanah Stotz, H. Sysak, Gordon Thompson, William Thompson, Stuart Tingley, Terry Toppins, Sara Toubman, A. M. Van Dehey, Russell Van Horn, Jeff Van Tine, Mike Vashro, Virginia Vincent, Martha Vogt, J. D. Waldo, Mike Weber, Marvel Weggeman, Tim Weiss, S. D. Weller, Al Wells, Kirwin Werner, Mike Wilson, Randy Wilson, Alfred Wipperman, Robin Wolcott, Carl Wolf, Ken Wolff, Marilyn Wood, Phil Wright, Vita Wright, Garry Wunderwald, Lewis Young, and Hugh Zackheim.

Appendix H. Rare Bird Report Form

Print clearly or type; include photos or drawings if available; use back of form if needed.

SPECIES: _____ Photo ?_____ Specimen? _____
Date: _____ QLL: _____ Status:(B,b,t,W,w) _____

Observer's name: _____
address: _____
phone: _____
Other Observers: _____
Reported by: _____ Report Date: _____

Specific Location: _____
Township: _____ Range: _____ Section: _____
Habitat: _____
Weather: _____
Optics: _____
Light: _____
Distance from bird: _____ Duration of Observation: _____
Previous experience with species: _____
Describe the bird(s) - include age, sex, molt:

Describe the behavior:

Discuss how other species were eliminated:

Send to: MBD - Montana Natural Heritage Program
1515 E. 6th Ave., Helena, MT 59620

Appendix I. Quarter Latilong Report Form

NAME: _____ **PHONE:** _____ **ADDRESS:** _____

Species	Date	QLL & Location description	Status* (B,b,t,W,w) & Observation Notes

* Observation notes for all sightings are requested; observation notes for species with "B" and "W" status are required.

Send to: MBD - Montana Natural Heritage Program, 1515 East 6th Ave., Helena, MT 59620.

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Species Index

The last word of the common name is indexed for species found in this book.

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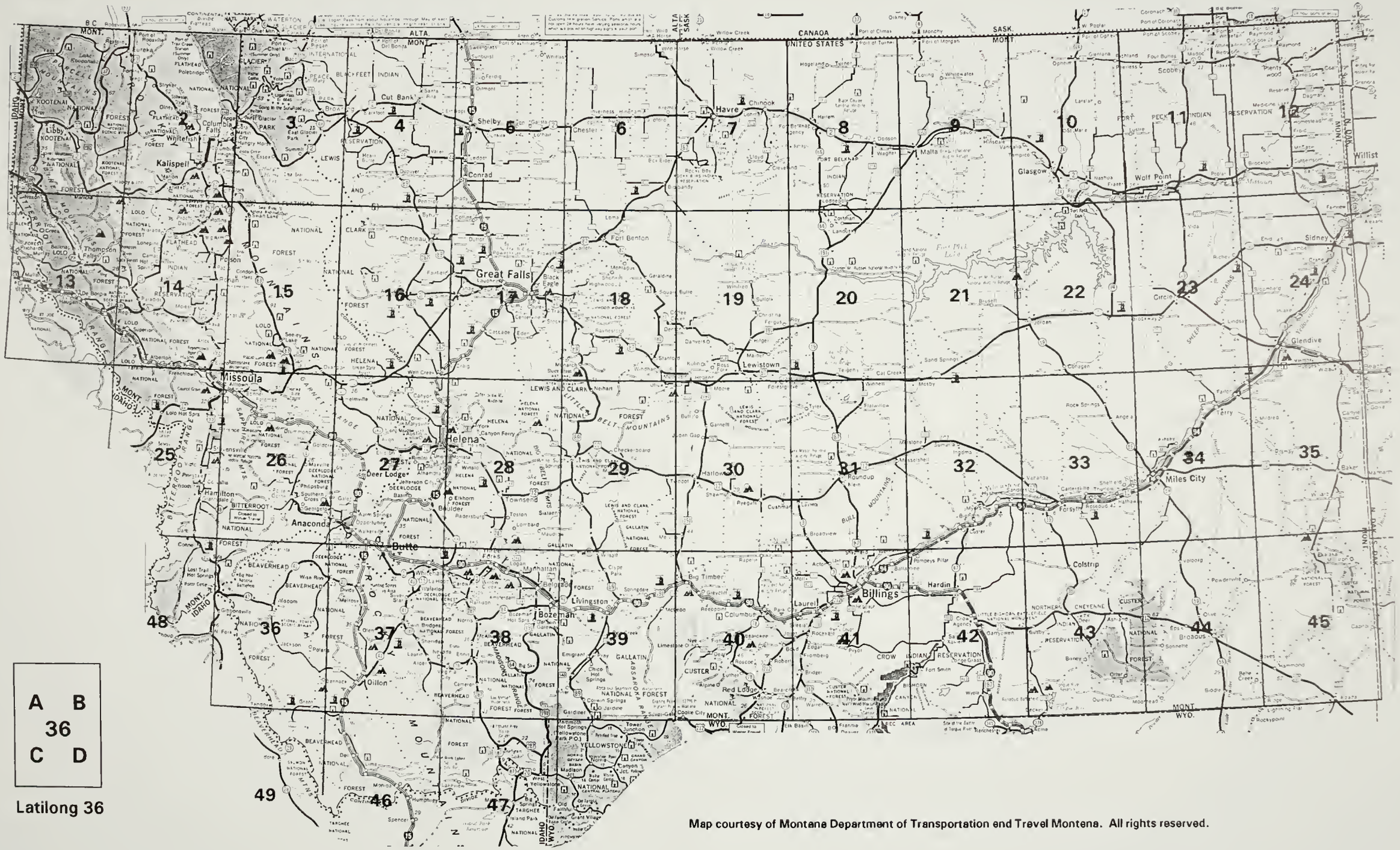
le:

IDAHO
MONT
B.C.
MONT.
ALTA.
SASK
Libby
KOOTENAI
Kalispell
Columbia Falls
Whitefish
Eureka
Port of Roosville
Port of Chief Mtn.
Port of Piegan
Port of Del Bonita
Cut Bank
Shelby
Conrad
Chester
Fort Benton
Great Falls
Choteau
Missoula
Helena
Lewis and Clark
Flathead
Glacier
Lake Koocanusa
Lake Koocanusa
Lake Koocanusa



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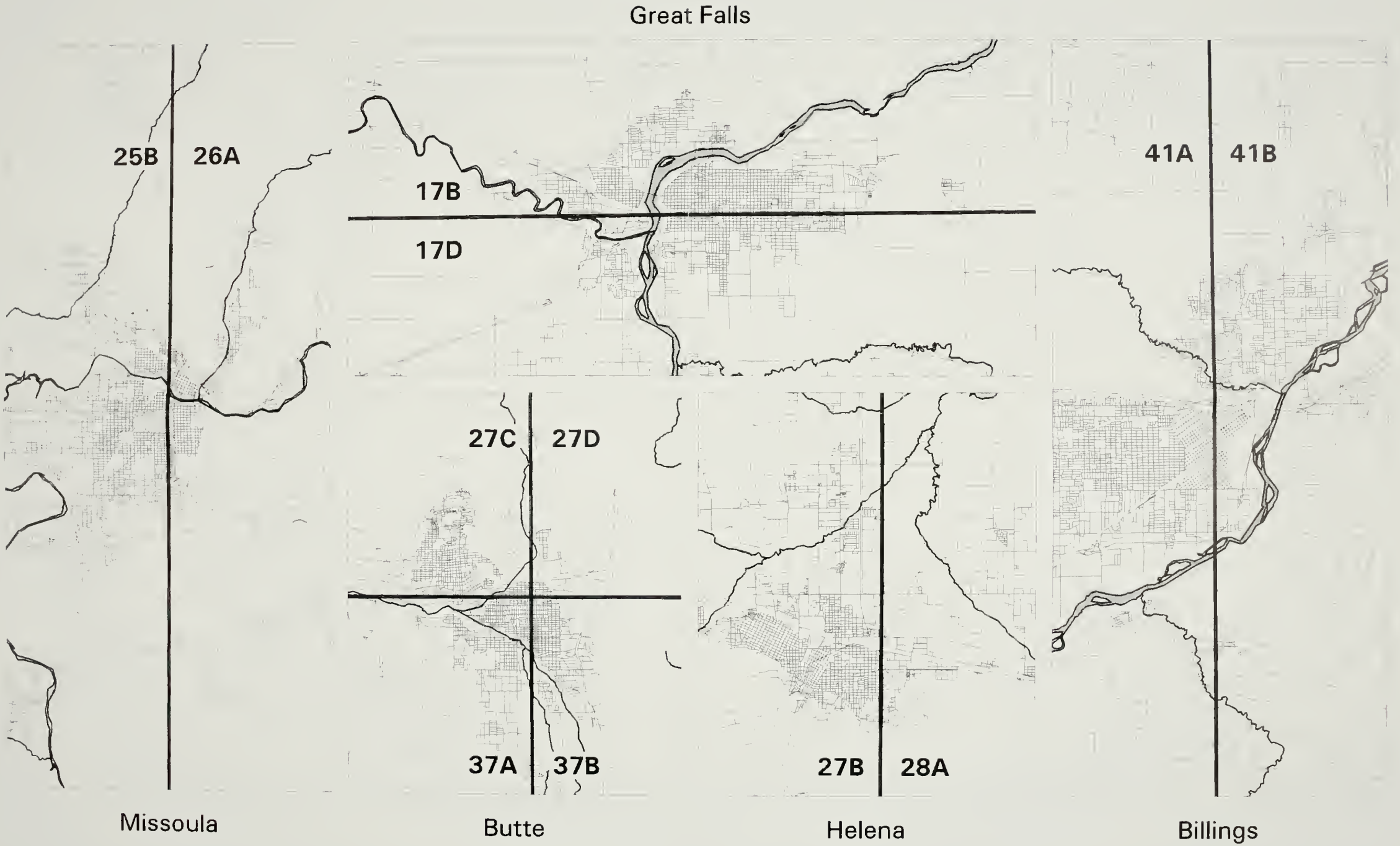
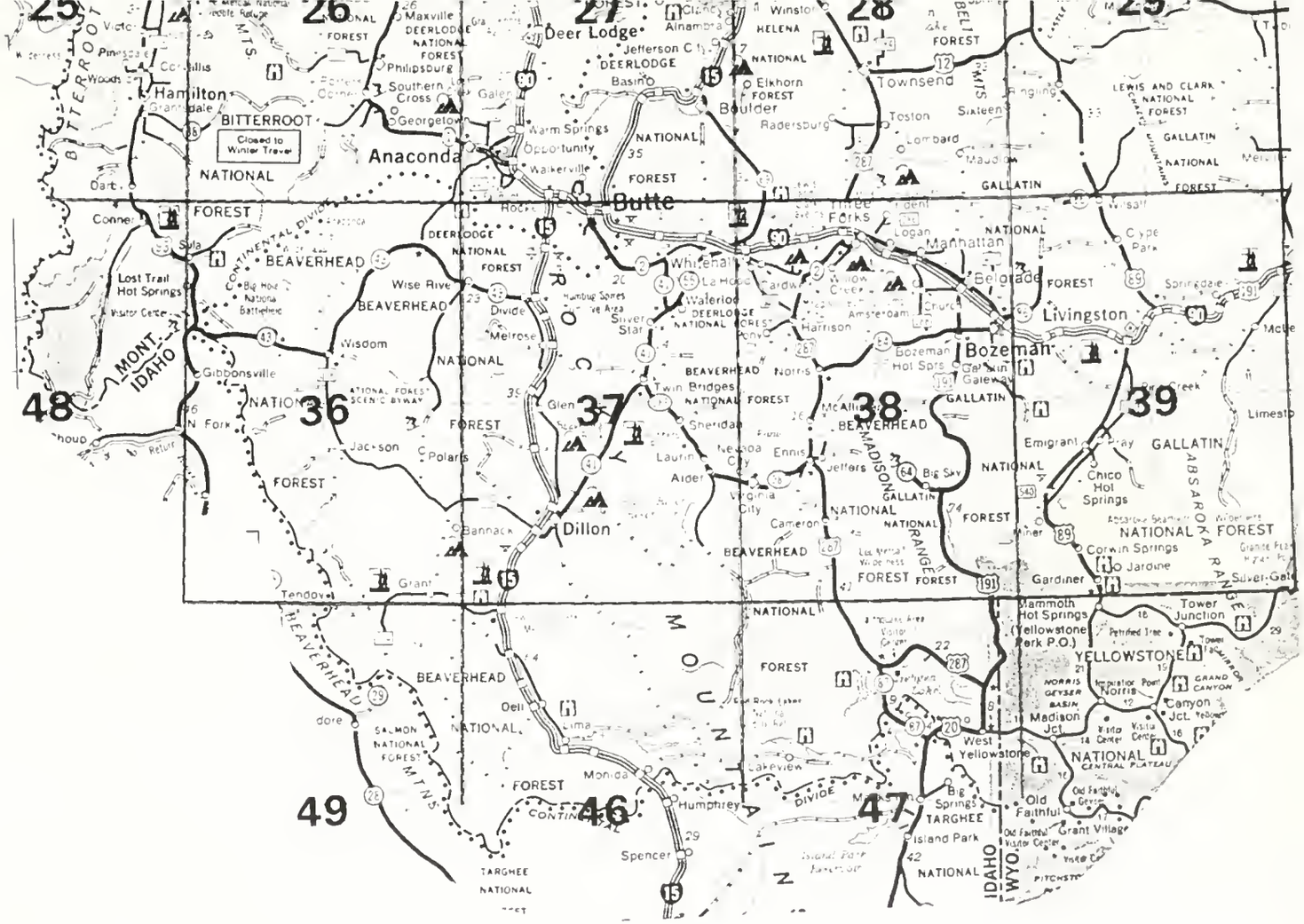

Great Falls
25B
26A
17B
17D
41A
41B
27C
27D
37A
37B
27B
28A
Missoula
Butte
Helena
Billings



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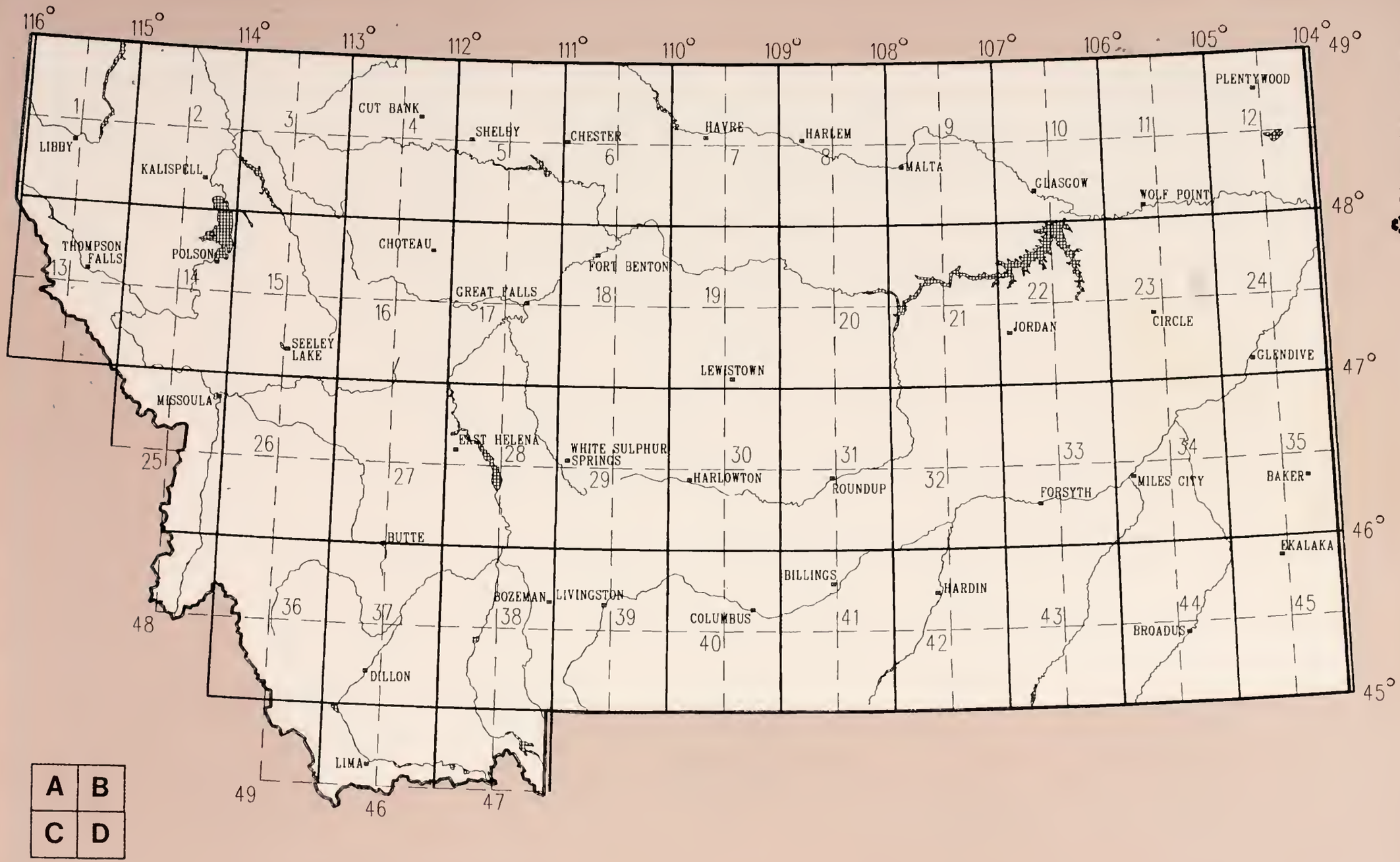

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